Synology

NAS Server

User's Guide

Applied Model:

DS108j, DS107, DS107+, DS207, DS207+, CS407e, CS407, DS408, RS407, RS408, RS408-RP, DS508

Document ID:

Synology _UserGuide_NASeries_20080616_enu

Based on Version:

DSM 2.0-063x

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About this User’s Guide

This user's guide covers all the functions of Synology NAS Server. Some of the functions may only be available on specific models. Please refer to product specification for further details.

Getting to know your Synology Server

Introduction

Congratulations on your purchase of Synology NAS Server (“Synology Server”). Synology Server is specially designed for the following purposes:

Storing and Sharing Files via Internet

Windows users and Mac users can easily share files within Intranet or through Internet. Unicode language support makes sharing different language files from Synology Server smoothly.

PC Data and Server Data Backup

Synology Server provides various backup solutions to back up PC data to Synology Server, back up Synology Server data to an external hard disk, or another Synology Server, or a rsync-compatible server.

Transferring Data via FTP

Synology Server provides FTP service with bandwidth restriction and anonymous login. To transfer data safely, “FTP over SSL” or “FTP over TLS” is also available on advanced models.

Managing Files through Web Browsers

File Station makes it possible for users to manage their files on the Synology Server easily through a web interface. Simply point the web browser to Synology File Station, and you have one more access to your files.

Sharing Photos, Videos and Blogs with Photo Station 3

Photo Station 3 gives you the freedom to share photos and videos over the Internet without complicated upload steps. Album control ensures the content is shared with the right persons. Visitors can even leave comments for your photos. Furthermore, a brand new blogging system is integrated for you to easily share your living and thoughts over the Internet.

Enjoying Entertainment Data Stored on Server

“Download Station” allows you to download files from Internet through BitTorrent, FTP, and HTTP to Synology Server. Moreover, if you have UPnP DMA connected in the LAN, you can enable “Multimedia Service” and share the multimedia files on Synology server. If you just want to share and play mp3 files stored on Synology Server, you can enable “iTunes Service”, and enjoy the music through any iTunes clients on LAN.

The build-in “Copy” button on the device allows instant copy of photos from the camera to Synology Server.

Enjoying Music instantly with USB Speakers

“Audio Station” allows users to collate music stored in Synology Server into playlist, play music stored on the Synology Server or from the connected iPod, or even stream internet Radio Stations. With USB speakers connected to the Synology Server, you’re able to bathe in music at anytime you want.

Programming your Own Web Site

Personal or corporate website can be easily setup using “Web Station” function. By integrating with PHP and MySQL, user can also set up blog or even online shop.

Video Recording with IP Cameras

"Surveillance Station" allows you to manage, view, and record videos from multiple* IP cameras on the Internet, By accessing the Surveillance Station’s web-based management interface, you can watch the real-time image the camera is monitoring, and record videos continuously as well as in the motion-detection mode.

USB Printer Server

You can share USB 2.0 Printer through Local Area Network.

* Supported on specific models only. Please refer to the product Specification table.

Specification

1-bay Models

Item	DS107	DS107+	DS108j
Internal HDD	3.5 SATA (II) x 1	3.5 SATA (II) x 1	3.5 SATA (II) x 1
Max. Capacity	1 TB	1 TB	1 TB
Hot Swappable HDD	No	No	No
External HDD Interface	USB x 3 eSATA x 1	USB x 3 eSATA x 1	USB x 3
LAN Port	Gigabit X 1	Gigabit X 1	Gigabit X 1
USBCopy	Yes	Yes	Yes
System Fan	X 1 (50mmX50mm)	X 1 (50mmX50mm)	X 1 (50mmX50mm)
Size (HxWxD) (mm)	160 X 63 X 218	160 X 63 X 218	160 X 63 X 218
Weight	0.81Kg	0.81Kg	0.81Kg
Supported Clients	• Windows 2000 Onward • Mac OS X 10.3 Onward		
Max. User Accounts	128	128	128
Max. Group Accounts	64	64	64
Max. Shared Folder	100	100	100
Max. Concurrent Connections	32	32	32
Max. Supported IP Cameras	2	2(64MB)/ 5(128MB)	1
File System	• EXT3 • FAT (External Disk Only) • NTFS (External Disk Read Only)		
Volume Type	Basic		
Agency Certifications	• FCC Class B • CE Class B • BSMI Class B • VCCI Class B		
HDD Hibernation	Yes	Yes	Yes
Event Notification	Yes	Yes	Yes
NTP	Yes	Yes	Yes
FTP over SSL/TLS	Yes	Yes	Yes
HTTPS Connection	Yes	Yes	Yes
Windows ADS Domain	Yes	Yes	No
Encrypted Network Backup	Yes	Yes	Yes
Scheduled Power On/Off	No	No	Yes
Language Localization	• English • German • French • Italian • Spanish • Danish • Norwegian • Polish • Swedish • Dutch • Russian • Japanese • Korean • Traditional Chinese • Simplified Chinese		
Power Consumption And Environment Requirements	• Line voltage: 90V to 230V AC • Frequency: 50Hz to 60Hz • Operating Temperature: 40 to 95° F (5 to 35° C) • Storage Temperature: 15 to 155° F (-10 to 70° C) • Relative Humidity: 5% to 95% RH • Maximum Operating Altitude: 10,000 feet		

Note: For the most recent product specification, please visit www.synology.com

2-bay Models

Item	DS207	DS207+
Internal HDD	3.5 SATA (II) x 2	3.5 SATA (II) x 2
Max. Capacity	2 TB	2 TB
Hot Swappable HDD	No	No
External HDD Interface	USB x 3	USB x 3 eSATA x 1
LAN Port	Gigabit X 1	Gigabit X 1
USBCopy	Yes	Yes
System Fan	X 1 (60mmX60mm)	X 1 (60mmX60mm)
Size (HxWxD) (mm)	160 X 88 X 218	160 X 88 X 218
Weight	0.98Kg	0.98Kg
Supported Clients	• Windows 2000 Onward • Mac OS X 10.3 Onward	
Max. User Accounts	128	128
Max. Group Accounts	64	64
Max. Shared Folder	100	100
Max. Concurrent Connections	32	32
Max. Supported IP Cameras	2	5
File System	• EXT3 • FAT (External Disk Only) • NTFS (External Disk Read Only)	
Volume Type	• Basic • RAID 0 • RAID 1	
Agency Certifications	• FCC Class B • CE Class B • BSMI Class B • VCCI Class B	• FCC Class B • CE Class B
HDD Hibernation	Yes	Yes
Event Notification	Yes	Yes
NTP	Yes	Yes
FTP over SSL/TLS	Yes	Yes
HTTPS Connection	Yes	Yes
Windows ADS Domain	Yes	Yes
Encrypted Network Backup	Yes	Yes
Scheduled Power On/Off	No	No
Language Localization	• English • German • French • Italian • Spanish • Danish • Norwegian • Polish • Swedish • Dutch • Russian • Japanese • Korean • Traditional Chinese • Simplified Chinese	
Power Consumption And Environment Requirements	• Line voltage: 90V to 230V AC • Frequency: 50Hz to 60Hz • Operating Temperature: 40 to 95° F (5 to 35° C) • Storage Temperature: 15 to 155° F (-10 to 70° C) • Relative Humidity: 5% to 95% RH • Maximum Operating Altitude: 10,000 feet	

Note: For the most recent product specification, please visit www.synology.com

4-bay Models

Item	CS407e/CS407	DS408	RS407	RS408	RS408-RP
Internal HDD	3.5 SATA (II) x 4	3.5 SATA (II) x 4	3.5 SATA (II) x 4	3.5 SATA (II) x 4	3.5 SATA (II) x 4
Max. Capacity	4 TB	4 TB	4 TB	4 TB	4 TB
Hot Swappable HDD	No	No	Yes	Yes	Yes
External HDD Interface	USB x 2	USB x 2	USB x 2	USB x 2	USB x 2
LAN Port	Gigabit X 1	Gigabit X 1	Gigabit X 1	Gigabit X2	Gigabit X2
USBCopy	No	No	No	No	No
System Fan	X 1 (80mmX80mm)	X 1 (80mmX80mm)	X 3 (40mmX40mm)	X 3 (40mmX40mm)	X 4 (40mmX40mm)
Power Fan	No	No	No	X 1 (40mmX40mm)	X 2 (40mmX40mm)
Size (HxWxD) (mm)	168 X 184 X 230	168 X 184 X 230	44 X 430.5 X 457.5	44 X 430.5 X 457.5	44 X 430.5 X 570.5
Weight	2.23Kg	2.23Kg	7.2Kg	7.1Kg	9.68Kg
Supported Clients	• Windows 2000 Onward • Mac OS X 10.3 Onward				
Max. User Accounts	2,048	2,048	2,048	2,048	2,048
Max. Group Accounts	256	256	256	256	256
Max. Shared Folder	200	200	200	200	200
Max. Concurrent Connections	128	128	128	128	128
Max. Supported IP Cameras	2/5	10	5	10	10
File System	• EXT3 • FAT (External Disk Only) • NTFS (External Disk Read Only)				
Volume Type	• Basic • RAID 0 • RAID 1 • RAID 5				
Agency Certifications	• FCC Class B • CE Class B • BSMI Class B • VCCI Class B	• FCC Class B • CE Class B • BSMI Class B	• FCC Class A • CE Class A • VCCI Class A	• FCC Class A • CE Class A • BSMI Class A • VCCI Class A	
HDD Hibernation	Yes	Yes	Yes	Yes	Yes
Event Notification	Yes	Yes	Yes	Yes	Yes
NTP	Yes	Yes	Yes	Yes	Yes
FTP over SSL/TLS	Yes	Yes	Yes	Yes	Yes
HTTPS Connection	Yes	Yes	Yes	Yes	Yes
Windows ADS Domain	Yes	Yes	Yes	Yes	Yes
Encrypted Network Backup	Yes	Yes	Yes	Yes	Yes
Scheduled Power On/Off	No	Yes	No	Yes	Yes
Language Localization	• English • German • French • Italian • Spanish • Danish • Norwegian • Polish • Swedish • Dutch • Russian • Japanese • Korean • Traditional Chinese • Simplified Chinese				
Power Consumption And Environment Requirements	• Line voltage: 90V to 230V AC • Frequency: 50Hz to 60Hz • Operating Temperature: 40 to 95° F (5 to 35° C) • Storage Temperature: 15 to 155° F (-10 to 70° C) • Relative Humidity: 5% to 95% RH • Maximum Operating Altitude: 10,000 feet				•

5-bay Models

Item	DS508
Internal HDD	3.5 SATA (II) x 5
Max. Capacity	5 TB
Hot Swappable HDD	Yes
External HDD Interface	USB X2, eSATA X1
LAN Port	Gigabit X 2
USBCopy	No
System Fan	X 2(80mmX80mm)
Power Fan	X 1(40mmX40mm)
Size (HxWxD) (mm)	177 X 203 X 242
Weight	4.75Kg
Supported Clients	• Windows 2000 Onward • Mac OS X 10.3 Onward
Max. User Accounts	2,048
Max. Group Accounts	256
Max. Shared Folder	200
Max. Concurrent Connections	128
Max. Supported IP Cameras	10
File System	• EXT3 • FAT (External Disk Only) • NTFS (External Disk Read Only)
Volume Type	• Basic • RAID 0 • RAID 1 • RAID 5
Agency Certifications	• FCC Class B • CE Class B • BSMI Class B • VCCI Class B
HDD Hibernation	Yes
Event Notification	Yes
NTP	Yes
FTP over SSL/TLS	Yes
HTTPS Connection	Yes
Windows ADS Domain	Yes
Encrypted Network Backup	Yes
Scheduled Power On/Off	Yes
Language Localization	• English • German • French • Italian • Spanish • Danish • Norwegian • Polish • Swedish • Dutch • Russian • Japanese • Korean • Traditional Chinese • Simplified Chinese
Power Consumption And Environment Requirements	• Line voltage: 100V to 240V AC • Frequency: 50Hz to 60Hz • Operating Temperature: 40 to 95° F (5 to 35° C) • Storage Temperature: 15 to 155° F (-10 to 70° C) • Relative Humidity: 5% to 95% RH • Maximum Operating Altitude: 10,000 feet

Note: For the most recent product specification, please visit www.synology.com

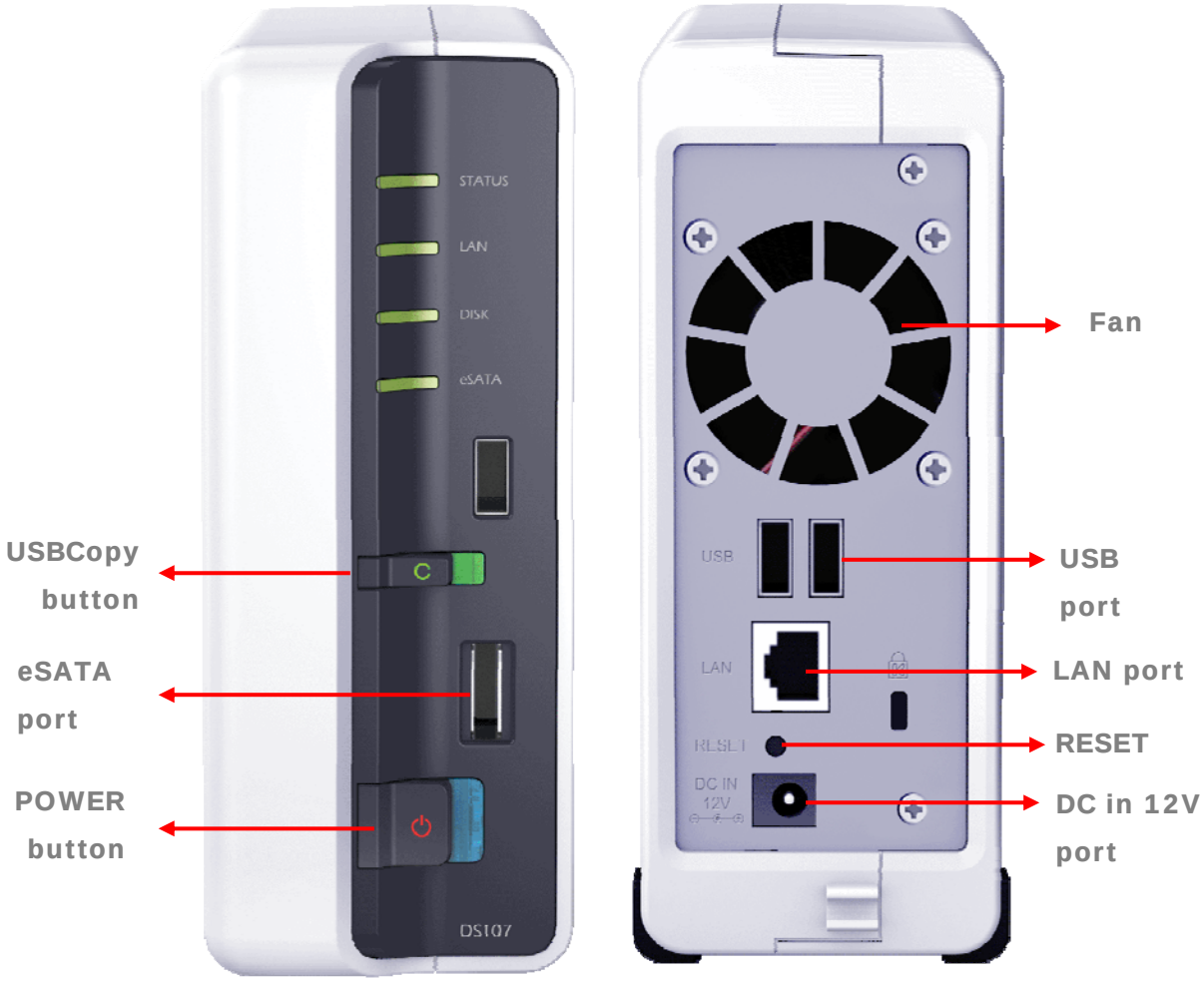
Limitations

1. Supports up to 1 USB printer.
2. USBCopy function only supports USB disks with FAT32 file system.
3. Some digital cameras are defined as a Still Image Device, such as Canon. For such devices, Synology Server only supports USB Copy function (No USB share function).
4. For Mac users, Synology Server supports only USB printers with PostScript.

Appearance

1-bay & 2-bay Disk Station

Front View *Rear View*



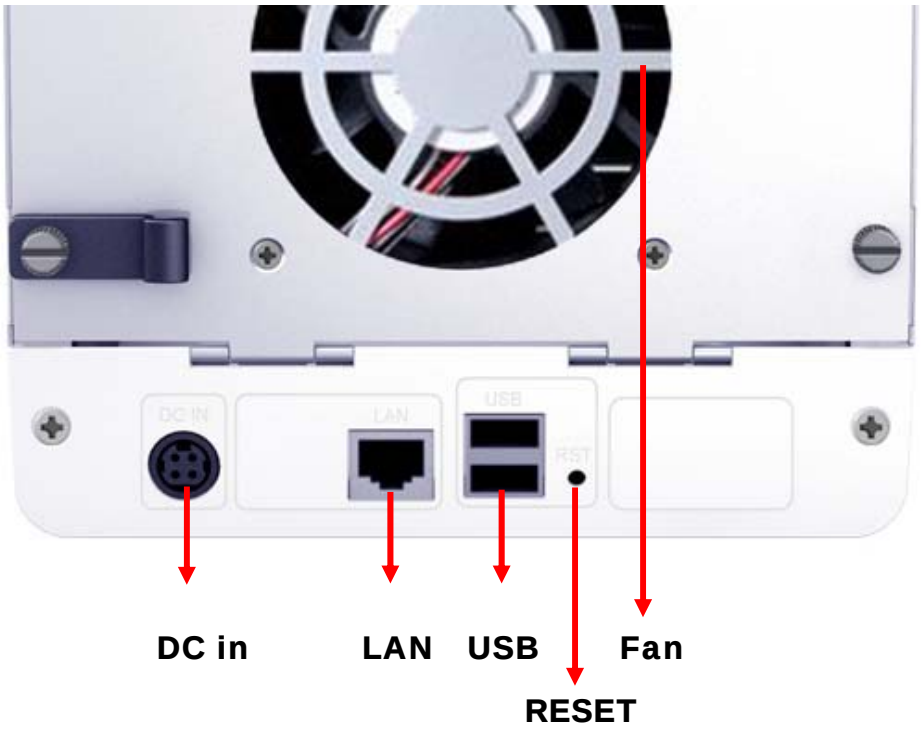
Article Name	Location	Description
Power Button	Front Panel	The Power Button is used to turn the Synology Server On or Off. To turn Off Synology Server, press the Power Button and hold it until you hear a "beep" sound and the Power LED starts blinking.
COPY Button	Front Panel	The COPY Button lights up when you connect a USB Device (for example: digital camera, USB flash disk). Pressing the button will copy the data from the connected USB device to the Synology Server's internal HDD.

USB Port	Front & Back Panel	The Synology Server offers 3 USB ports for adding additional external hard drives, USB printers, or other USB devices. One at the front, and other two at the back.
Smart Fan Ventilation	Back Panel	The fan is to exhaust waste heat out of Synology Server. It will start automatically when the server starts. If the fan is malfunctioning, system will "beep" every 1 second.
eSATA Port	Front Panel	The eSATA port is for connecting with an external SATA HDD.
RESET Button	Back Panel	1. To restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status. (Please refer to “Resetting Administrator Password” chapter.) 2. To reinstall the Synology Server. (Please refer to “Reinstalling Synology Server” chapter.)
LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology Server.
DC IN 12V Port	Back Panel	The DC IN 12V Port is where you connect the AC Power Adapter.

4-bay Cube/Disk Station

Front View

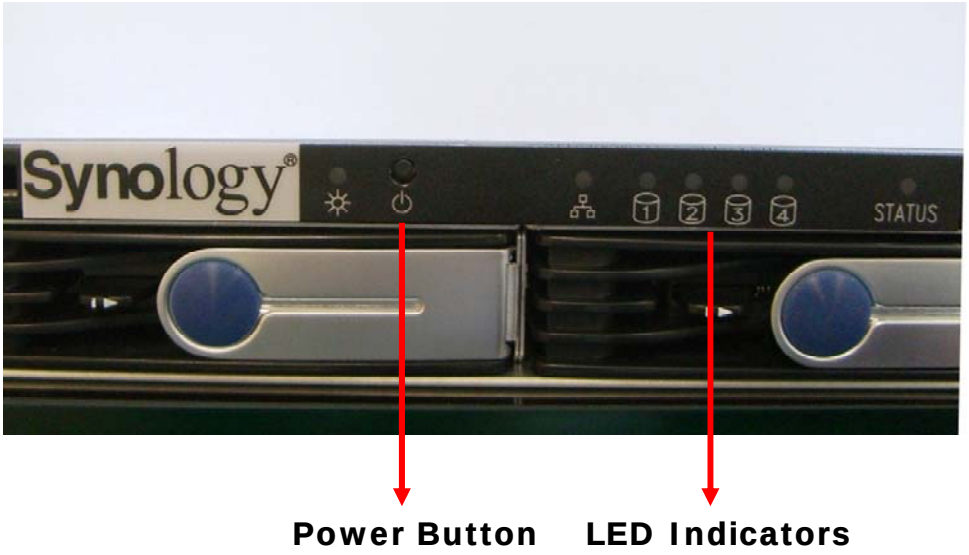
Rear View



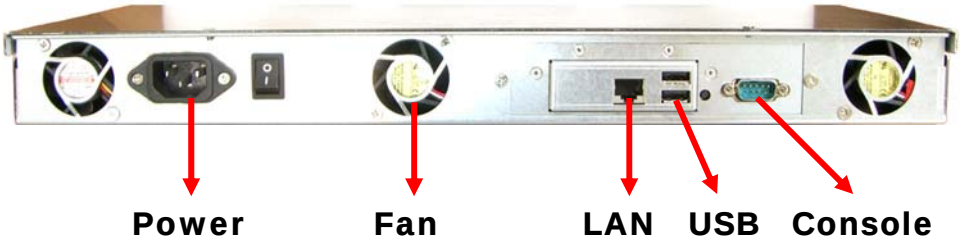
Article Name	Location	Description
Power Button	Front Panel	The Power Button is used to turn Synology Server On or Off. To turn Off Synology Server, press the Power Button until you hear a "beep" and the Power LED begins blinking. The shutdown process will complete in 30 seconds.
LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system.
USB Port	Back Panel	Synology Server offers 2 USB ports for adding additional external hard drives, USB printers, or other USB devices.
Fan Ventilation	Back Panel	The fan is to exhaust waste heat out of Synology Server. It will start automatically when the server starts. If the fan is malfunctioning, system will "beep" every 1 second.
RESET Button	Back Panel	3. To restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status. (Please refer to “Resetting Administrator Password” chapter.) 4. To reinstall the Synology Server. (Please refer to “Reinstalling Synology Server” chapter.)
LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology Server.
DC IN Port	Back Panel	The DC IN Port is where you connect the AC Power Adapter.

4-bay 1U Rack Station

Front View



Rear View

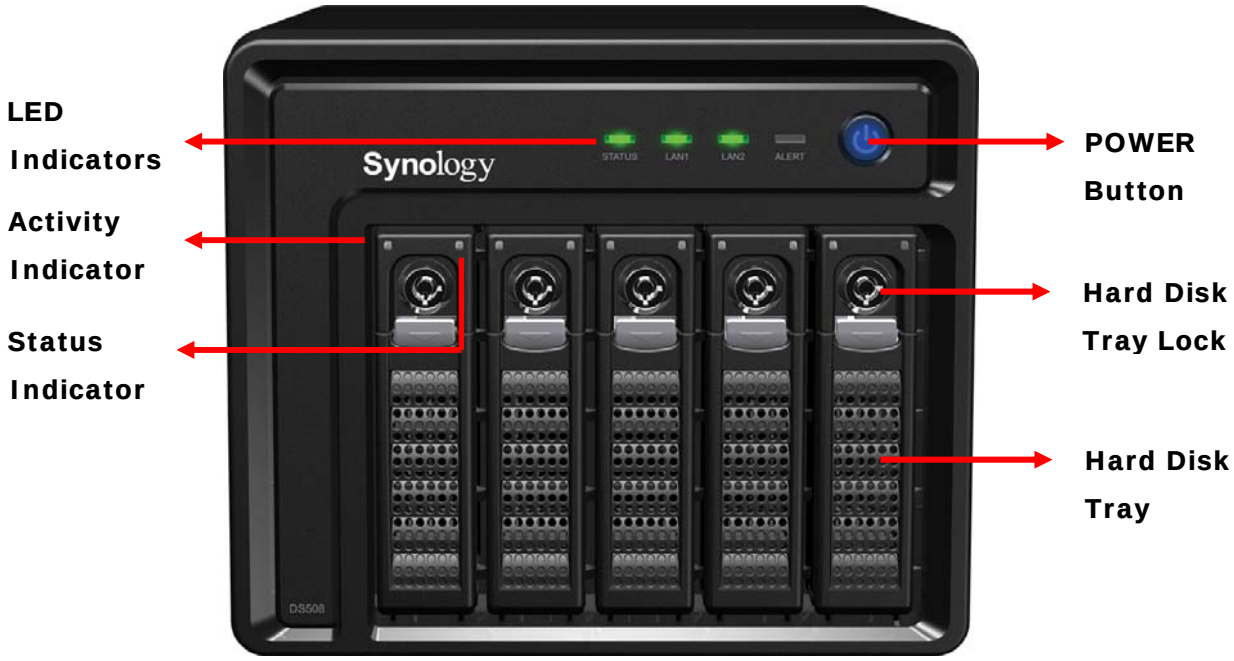


Article Name	Location	Description
Power Button	Back Panel	The Power Button is used to turn Synology Server On or Off. To turn Off Synology Server, press the Power Button until you hear a "beep" and the Power LED begins blinking. The shutdown process will complete in 30 seconds.
LED indicators	Front Panel	The LED Indicator is used to display the status of the internal disk and the system.
USB Port	Back Panel	Synology Server offers 2 USB ports for adding additional external hard drives or other USB devices.
Fan	Back Panel	There are 3 fans on the back panel. The fans are used to exhaust waste heat out of Synology Server. The fans will start automatically when Synology Server starts. If the fan is malfunctioning, system will "beep" every 1 second.

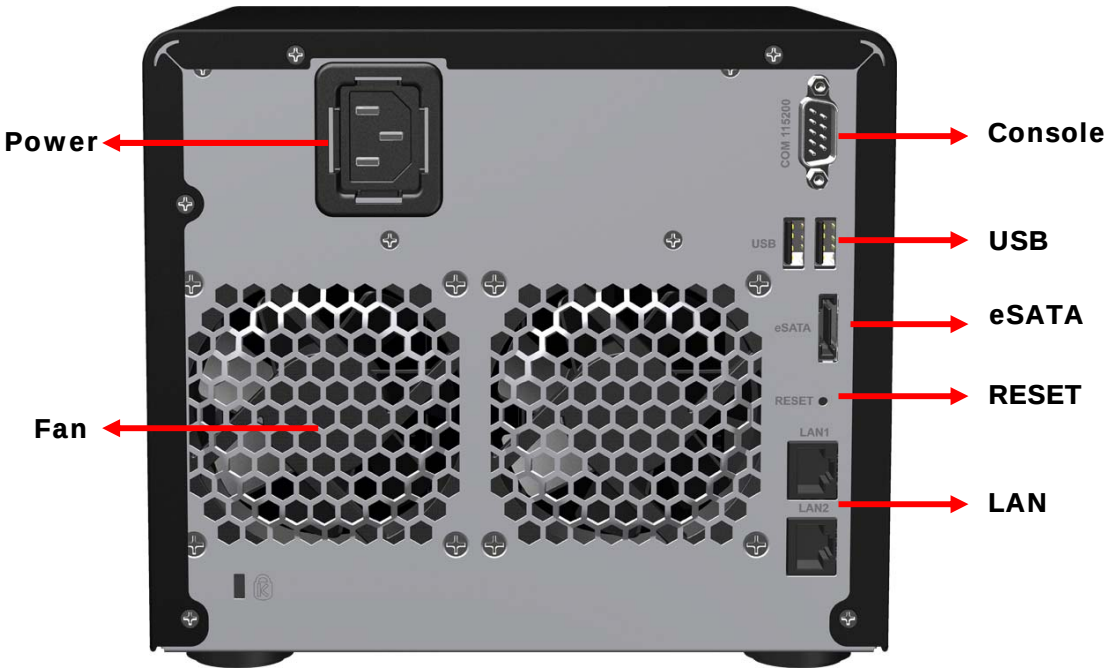
Console port	Back Panel	The console port is where you connect Synology Server directly to a computer.
RESET Button	Back Panel	1. To restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status. (Please refer to “Resetting Administrator Password” chapter.) 2. To reinstall the Synology Server. (Please refer to “Reinstalling Synology Server” chapter.)
LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to RS407.
Power Port	Back Panel	The power port is where you connect the AC power cord.

5-bay Disk Station

Front View



Rear View



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Power Button	Front Panel	The Power Button is used to turn Synology Server On or Off. To turn Off Synology Server, press the Power Button until you hear a "beep" and the Power LED begins blinking. The shutdown process will complete in 30 seconds.
LED Indicator	Front Panel	The LED Indicator is used to display the status of the internal disk and the system.
Hard Disk Tray	Front Panel	There are 5 hard disk trays on the front panel. Each tray is designed to hold a hard disk vertically.
Hard Disk Tray Lock	Front Panel	Each of the 5 hard disk trays is equipped with one tray lock. Use the tubular key in the package to lock/unlock the trays to the system.
USB Port	Back Panel	Synology Server offers 2 USB ports for adding additional external hard drives or other USB devices.
Fan	Back Panel	There are 2 fans on the back panel. The fans are used to exhaust waste heat out of Synology Server. The fans will start automatically when Synology Server starts. If the fan is malfunctioning, system will "beep" every 1 second.
Console port	Back Panel	The console port is where you connect Synology Server directly to a computer.
RESET Button	Back Panel	1. To restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status.

		(Please refer to “Resetting Administrator Password” chapter.) 2. To reinstall the Synology Server. (Please refer to “Reinstalling Synology Server” chapter.)
LAN Port	Back Panel	There are 2 LAN ports on the back panel. The LAN port is where you connect RJ-45 cable to your Synology Server.
Power Port	Back Panel	The power port is where you connect the AC power cord.
eSATA	Back Panel	The eSATA port is for connecting with an external SATA HDD.

LED Indication Descriptions Table

1-bay & 2-bay Models

LED Indication	Color	Status	Description
STATUS	Green	Solid	Volume normal
	Orange	Solid	Available volume space < 1GB System firmware not installed
		Blinking	Volume degraded or crashed No volume
	Green/Orange	Blinking	Checking memory
LAN	Green	Solid	Network is up
		Blinking	Network is active
		Off	Network is down
DISK / eSATA	Green	Solid	Disk ready
		Blinking	Disk is being accessed
		Off	No internal disk
	Orange	Blinking	Cannot Read/Write
USBCopy	Green	Solid	USB disk detected
		Blinking	Copying data
		Off	No USB disk attached
Power	Blue	Solid	System ready
		Blinking	Booting up Shutting down
		Off	Power off

4-bay Models

LED Indication	Color	Status	Description
STATUS	Green	Solid	Volume normal
	Orange	Solid	Available volume space < 1GB System firmware not installed
		Blinking	Volume degraded or crashed No volume
	Green/Orange	Blinking	Checking memory
LAN	Green	Solid	Network is up
		Blinking	Network is active
		Off	Network is down
DISK 1~4	Green	Solid	Disk ready
		Blinking	Disk is being accessed
		Off	No internal disk
	Orange	Blinking	Cannot Read/Write
Power	Blue	Solid	System ready
		Blinking	Booting up Shutting down
		Off	Power off
RPS-STATUS*	Green	Solid	Two redundant power supply are working
		Blinking	1 RPS not working

* RS408-RP only

5-bay Models

LED Indication	Color	Status	Description
STATUS	Green	Solid	Volume Normal
	Orange	Solid	Available volume size < 1GB System firmware not installed
		Blinking	Volume degraded or crashed No volume
LAN1 & LAN2	Green	Solid	Network is up
		Blinking	Network is active
		Off	Network is down
ALERT	Orange	Blinking	Hardware Error
		Off	System is healthy
Power	Blue	Solid	System ready
		Blinking	Booting up Shutting down
		Off	System off
Status Indicator (on tray)	Green	Solid	Disk ready
		Off	No disk
	Orange	Blinking	Volume crash
Activity Indicator (on tray)	Green	Blinking	Disk being accessed
		Off	No disk or disk idle

Managing Synology Server

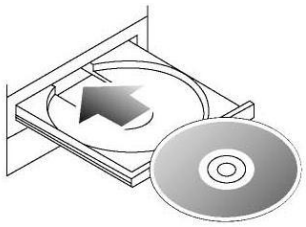
Entering Web Management UI

System administrator can manage the Synology Server by entering the web management UI. There are two options for you to enter the management UI:

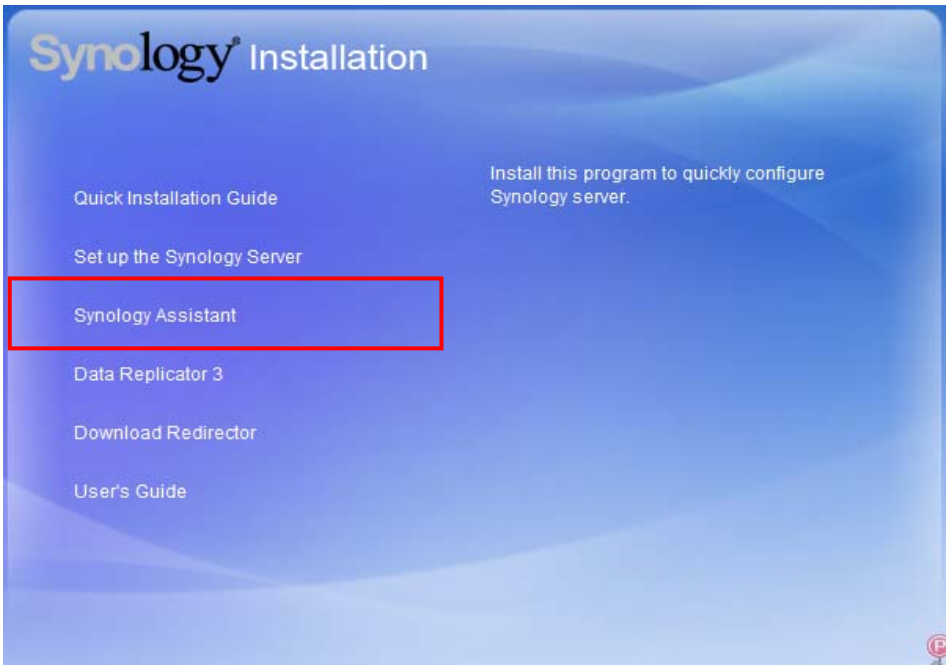
Using Setup Utility

[Windows User]

1. Insert the Installation CD into CD/DVD-Rom Drive.



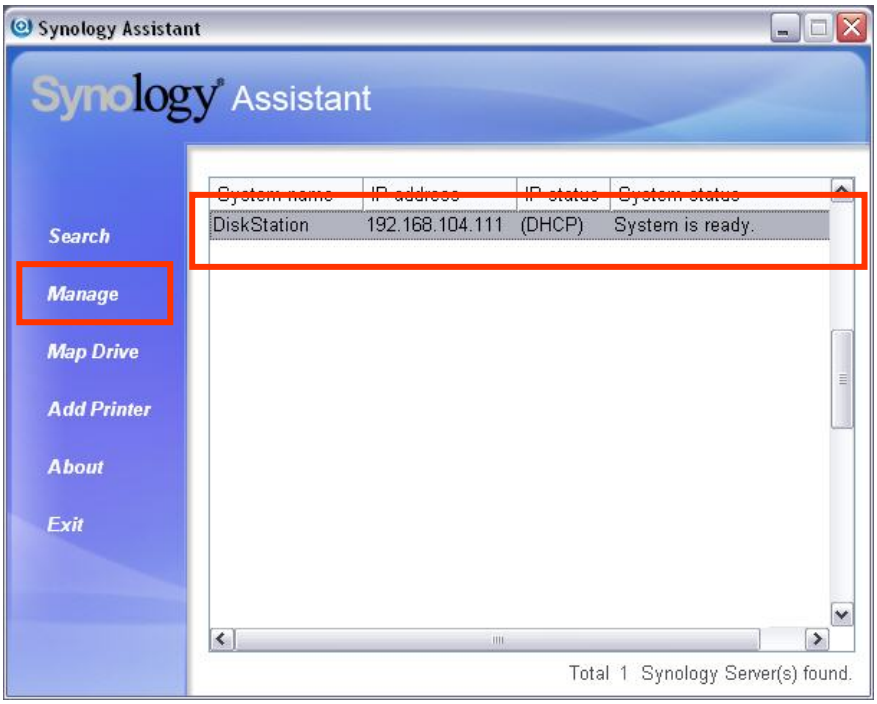
2. Choose “Synology Assistant” at the Autoup Menu.



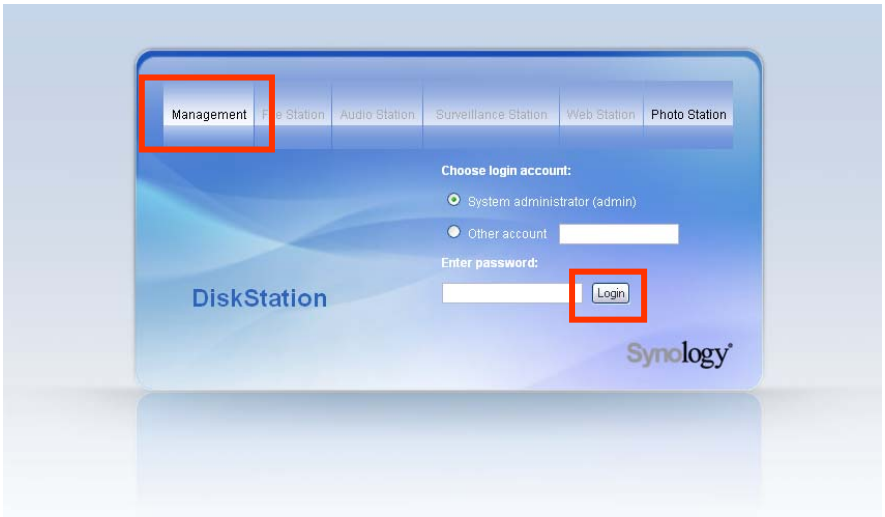
3. Follow the steps to complete installation.

4. After installation, double click on the desktop icon to execute the program.

5. Choose the server you want to manage and click “Manage” to enter the Web Management UI.



6. Click on “Management”. Choose “login as system administrator (admin)”, input password and click “Enter”.



[Mac OSX User]

1. Insert the Installation CD into CD/DVD-Rom Drive.
2. Double-Click CD-Rom Drive thumbnail.

3. Double-Click "MacOSX" thumbnail.
4. Double-Click "Synology Assistant-SYNOLOGY.dmg" thumbnail.
5. Double-Click "Synology Assistant" thumbnail to run setup wizard.
6. Choose a Synology Server and click "Manage" to enter the Web Management UI.
7. Choose "login as system administrator (admin)", input password and click "Enter".

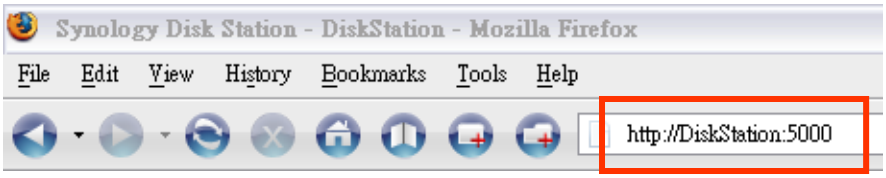
Please note:

To ensure flawless management process, please use the following browsers:

Browser	Version
Internet Explorer	6.0 and onward
Firefox	2.0
Safari (Mac only)	3.0 and onward

Accessing Web Management UI Manually

1. Open a web browser window.
2. At the address line input “http://Synology_Server_Name:5000/", where “Synology_Server_Name” should be replaced with the name you set up for Synology Server during the setup process. If you choose "One-step Setup" during the setup process, the "Synology_Server_Name" will be "DiskStation", "CubeStation", or "RackStation".


Synology Disk Station - DiskStation - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://DiskStation:5000

3. Press “Enter” key on the keyboard.
4. Choose "login as system administrator (admin)".
5. Input password for admin.
6. Click “Enter” to access Web Management UI.

Managing Synology Server

You can start managing Synology Server in Web Management UI. Synology Server Web Management UI provides distinctive and straight forward design for easy management. You will find an online “Help” button ? at the upper right corner of every page of the Web Management UI. Click on the “Help” button for further information whenever you encounter any problem.

Connecting from Two Different Network*

Synology Server supports dual LAN that allows you to connect to the network with two LAN cables at the same time, or to set the Synology Server using two IP addresses under different subnets. Please go to the "System > Network" page of the Web Management UI for setup.

Managing Volume*

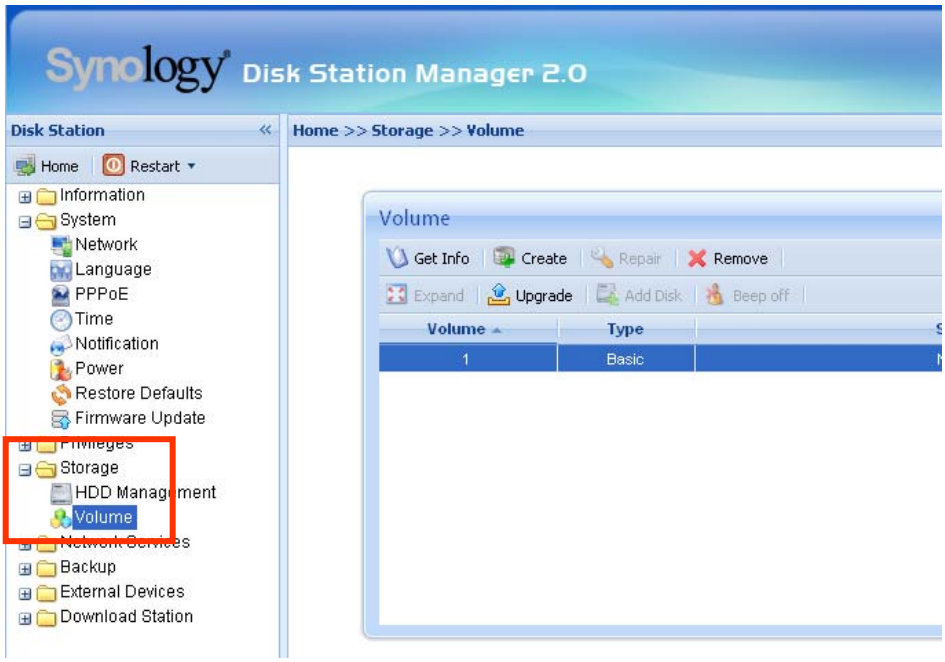
You can combine hard disks on Synology Server to create different types of volumes, and find the data protection level of your need. The Synology Server provides you various volume types as follows:

Volume Type	Amount of composed hard disk	Functionality
Basic	1	A Basic (non-RAID) volume must be created with one hard disk as an independent unit. When creating a Basic volume, you can select only one hard disk at a time.
RAID 0	>2	Combining multiple disks to build a volume, RAID 0 offers Striping, a process of dividing data into blocks and spreading the data blocks across several hard disks, but without safety measures.
RAID 1	2	One of the composed disks is used for backup purposes; the content of disk A is mirrored to disk B to assure data integrity. Therefore the actual available storage capacity equals to only the capacity of one hard disk.
RAID 5	>3	This configuration includes a backup option. It uses parity mode to store redundant data on space equal to the size of one disk for later data recovery. Therefore the actual available storage capacity equals to the capacity of n-1 hard disks.

Managing Volume*

You can create, remove, and repair volume. For the detailed description, please refer to Help on “Storage > Volume” page.

* Supported on specific models only. Please refer to the product Specification table.



Repairing Volume by Hot Swapping*

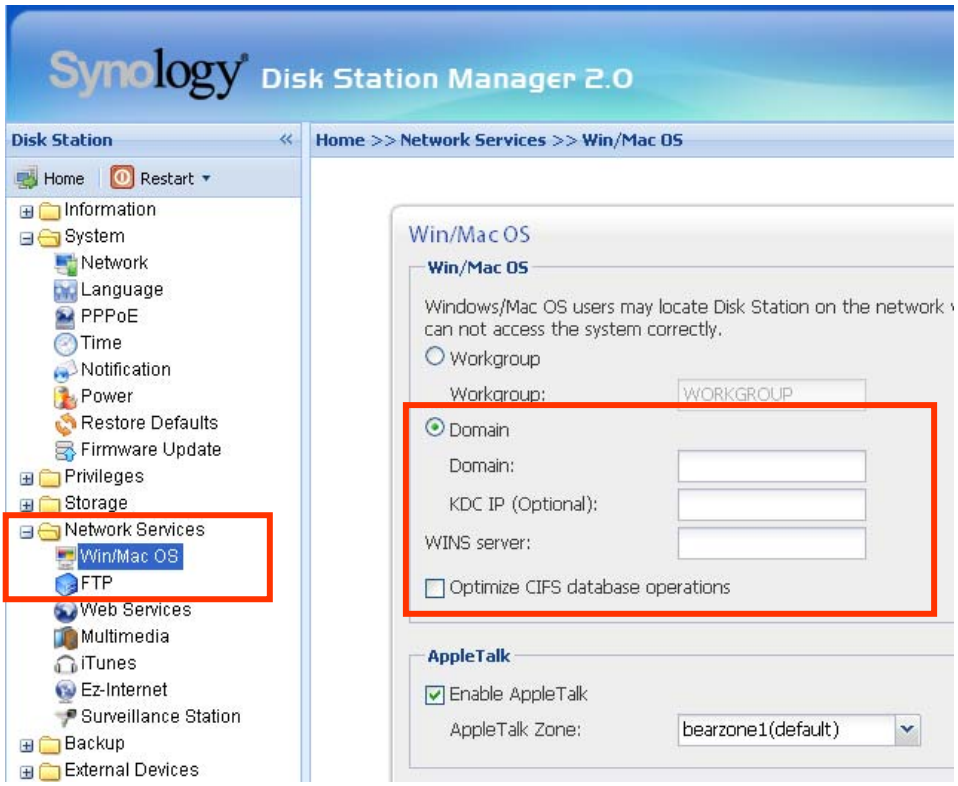
Synology Server provides hot swapping function. When you need to replace crashed disks in Synology Server, you don't need to turn off the server. You can refer to the disk status on the management UI, or the front panel LED indicators to identify crashed disks, and directly pull out the hard disk tray to replace the crashed disk with a new one. Then follow the steps on management UI to repair the degraded volume right after replacing the hard disk.

Joining Windows Domain*

You can add Synology Server to Windows domain and let the domain users access the Synology Server. Synology Server supports Active Directory Service (ADS) domain. After adding the Synology Server to a Windows domain, you can go to the "Privileges > Shared Folder" page to assign the domain users' privileges of shared folders on the server. When domain users access the Synology Server, they only need to enter their domain account and password,for authentication.

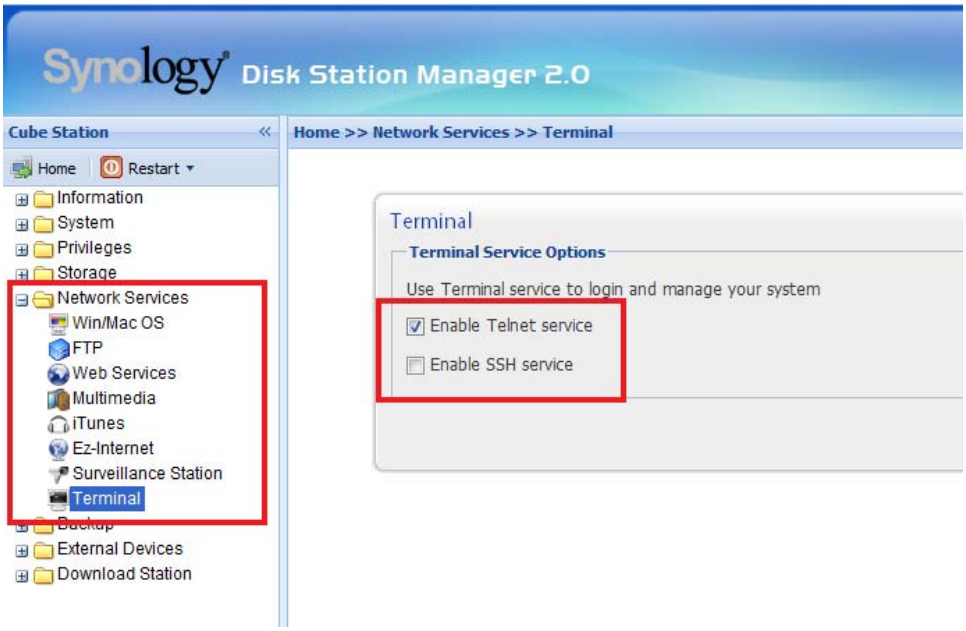
For the detailed description, please refer to Help on "Network Services > Win/Mac OS" page.

* Supported on specific models only. Please refer to the product Specification table.



Accessing Synology Server via Telnet/SSH

To be able to access Synology Server via Telnet/SSH, go to "Network Services > Terminal" and enable the terminal service.



Resetting Administrator Password

Pressing the “RESET” button and hold it for about 4 seconds before you heard a beep sound will restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status. The default password of the “admin” account is blank.

Reinstalling Synology Server

If for any reason you have to reinstall the Synology Server, you can press the RESET button on the back panel twice, and the Synology Server will be reinstalled. The data saved on the Synology Server will not be erased during the reinstallation. However, for security’s reason, we strongly recommend that you back up the data on the server.

To reinstall the server:

1. Press the “RESET” button and hold it for about 4 seconds. Release the button when the Synology Server emits a beep sound.
2. Within the next 10 seconds, press the “RESET” button and hold it for about 4 seconds again. Release the button when the Synology Server emits a beep sound.
3. Run Synology Assistant, and set up the Synology Server again.

Note: The version of Synology Assistant should be identical to the version of the firmware patch file you install.

Accessing Synology Server Data

File sharing service is one of the Synology Server's major functions. Administrator can setup access rights for users either with Windows or Mac to access shared folders.

Shared Folders

System Built-in

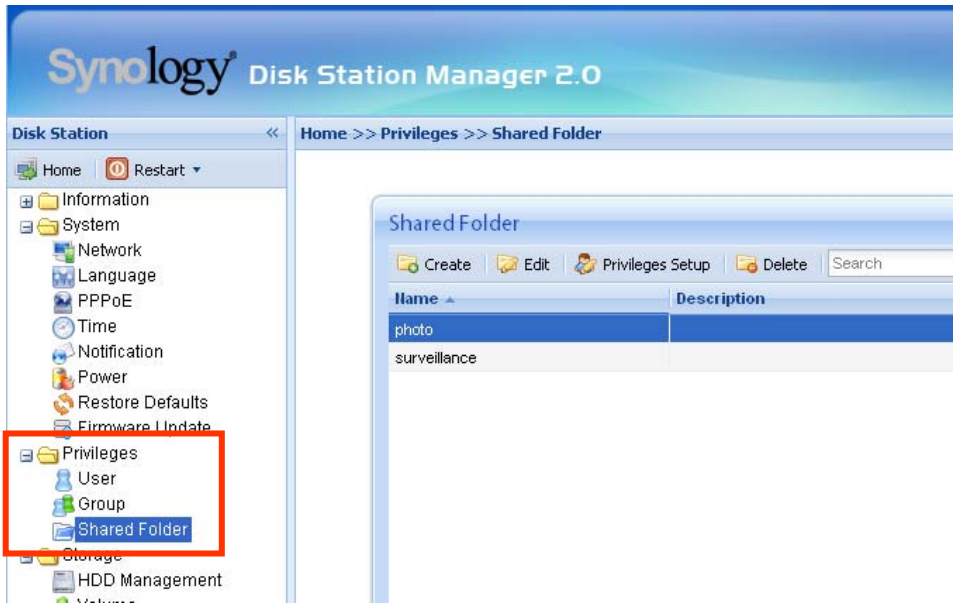
Below are system built-in shared folders.

Name	Description
public	The "public" shared folder will be created automatically after the first-time setup on Synology 1-bay models.
web	The shared folder “web” is for storing web pages. When Web Station is enabled, the "web" shared folder will be created automatically. You can upload web pages to the "web" shared folder to build your website. For detailed information, please refer to “Extra Features > Web Station” section.
photo	The shared folder “photo” is for storing image and video files you want to share on Photo Station 3. It will be created automatically when Photo Station or UPnP Support is enabled. Image files in “photo” shared folder can be browsed when Photo Station or UPnP Service is enabled. For detailed information, please refer to descriptions of Photo Station 3 and Multimedia Service.
music	You can store music files in the “music” shared folder. When iTunes Service is enabled, you can browse the music files on iTunes. For more details on the iTunes Service, refer to the "Extra Features > iTunes Service" section. In addition, when UPnP Support is enabled, you can be browsed through UPnP DMA. For detailed information, please refer to descriptions of Multimedia Service.
video	Video files in the “video” shared folder can be browsed through UPnP DMA when Multimedia Service is enabled. For detailed information, please refer to descriptions of Multimedia Service.
surveillance	The shared folder "surveillance" is for storing the video files recorded by Surveillance Station. It will be created automatically when Surveillance Station is enabled. This shared folder is read-only and can only be accessed with

Name	Description
	the "admin" account. For more details, please refer to the "Extra Features > Surveillance Station" section.
usbbackup	After you connect external USB HDD to Synology Server's USB port and format it for the backup purpose, system will automatically create a shared folder called "usbbackup". Refer to "Server Backup and PC Backup Solutions> Local Backup" section for details.
satabackup	After you connect external SATA HDD to Synology Server's eSATA port and format it for the backup purpose, system will automatically create a shared folder called "satabackup". Refer to "Server Backup and PC Backup Solutions> Local Backup" section for details.
NetBackup	The shared folder "NetBackup" is for saving backed up files using Network Backup. Please refer to the "Backup > Network Backup" page of the Web Management UI.
usbshare	After you connect external USB HDD to Synology Server's USB port, system will automatically create a shared folder with the prefix "usbshare". Refer to "Expanding Storage Capacity> External HDD" section for details.
satashare	After you connect external SATA HDD to Synology Server's eSATA port, system will automatically create a shared folder with the prefix "satashare". Refer to "Expanding Storage Capacity> External HDD" section for details.

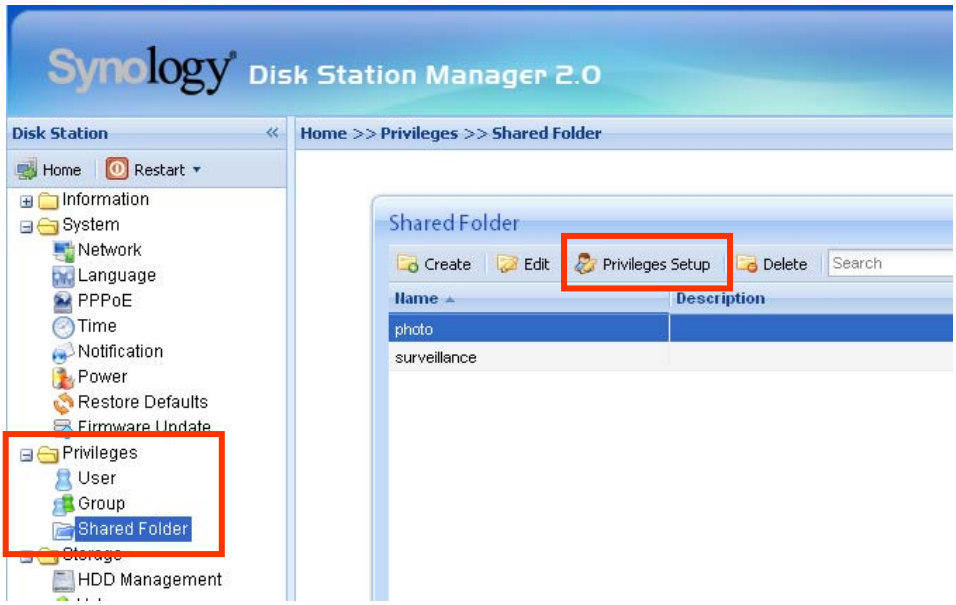
Administrator-Created

Apart from the above system built-in shared folders, Administrator can create shared folders on the page “Privileges > Shared Folder” of the Web Management UI. Shared folders created by Administrator can be deleted or renamed at any time.



Setting Access Control

For security reasons, Administrator can go to the “Privileges > Shared Folder” page of the Web Management UI and assign user privileges of accessing the shared folders.

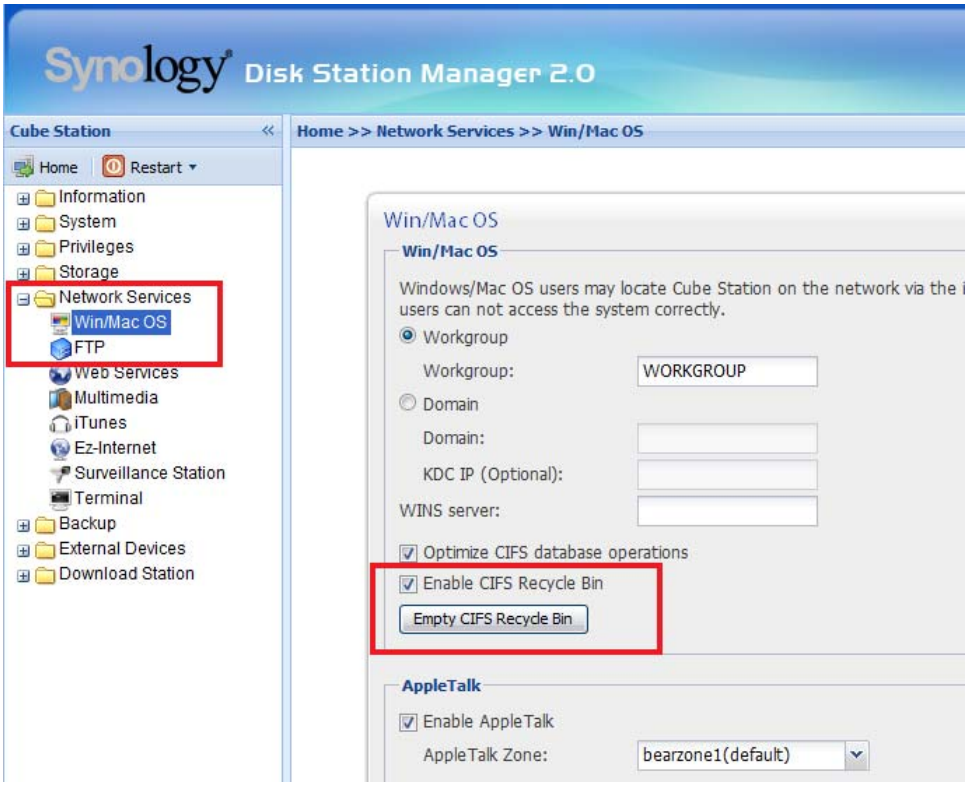


Using Network Recycle Bin

When users delete files in the shared folders via the SMB/CIFS protocol (ex: on Windows), the deleted files will be moved into the automatically-created folder "#recycle" in the same shared folder to avoid files being unintentionally deleted.

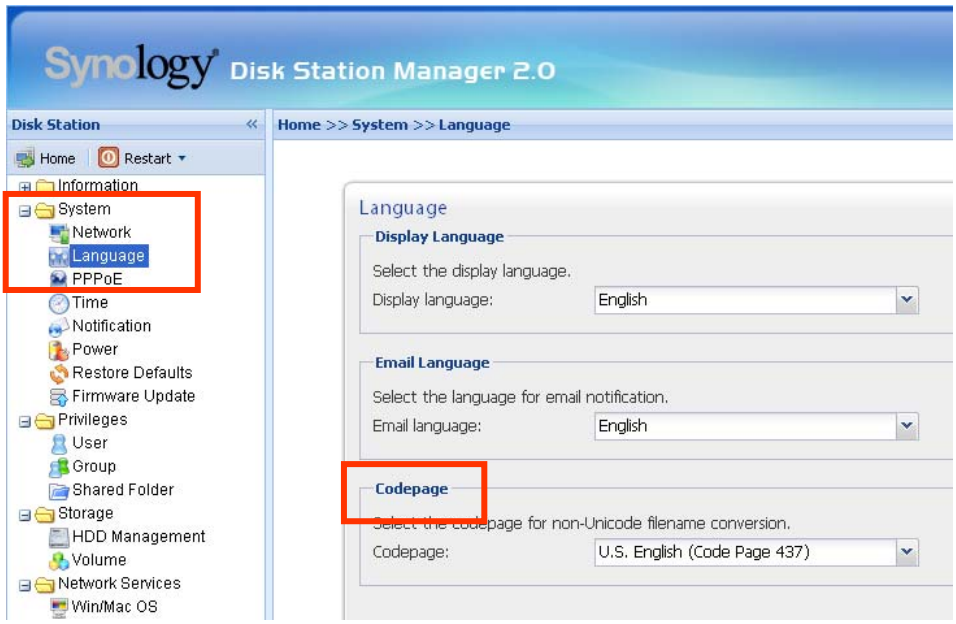
To enable the recycle bins, going to the page “Network Services > Win/Mac OS”, and check the “Enable CIFS Recycle Bin” option.

To permanently deleted files in a shared folder, just delete the “#recycle” folder; to permanently delete files in all shared folder, click the “Empty CIFS Recycle Bin” button.



Setting Encoding

Synology Server uses Unicode to manage files. The benefit of using Unicode is to avoid file inaccessibility between users who use different languages. However, for users without Unicode support on their PC, Administrator can set the encoding method of the files to overcome the problem. Please go to the page “System > Language” of the Web Management UI for setup.



Accessing Shared Folders

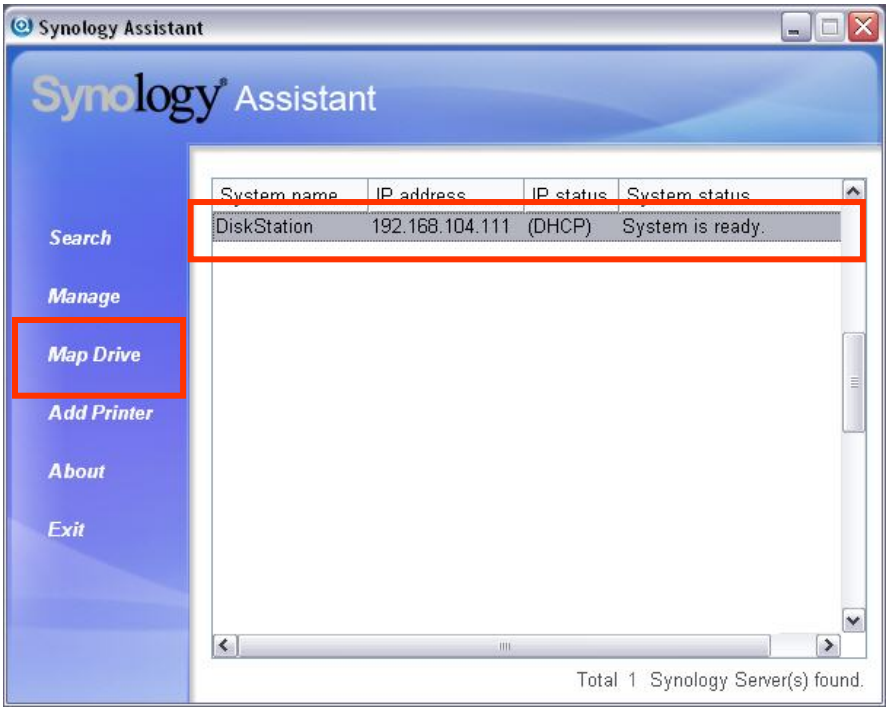
From the same network

Windows User

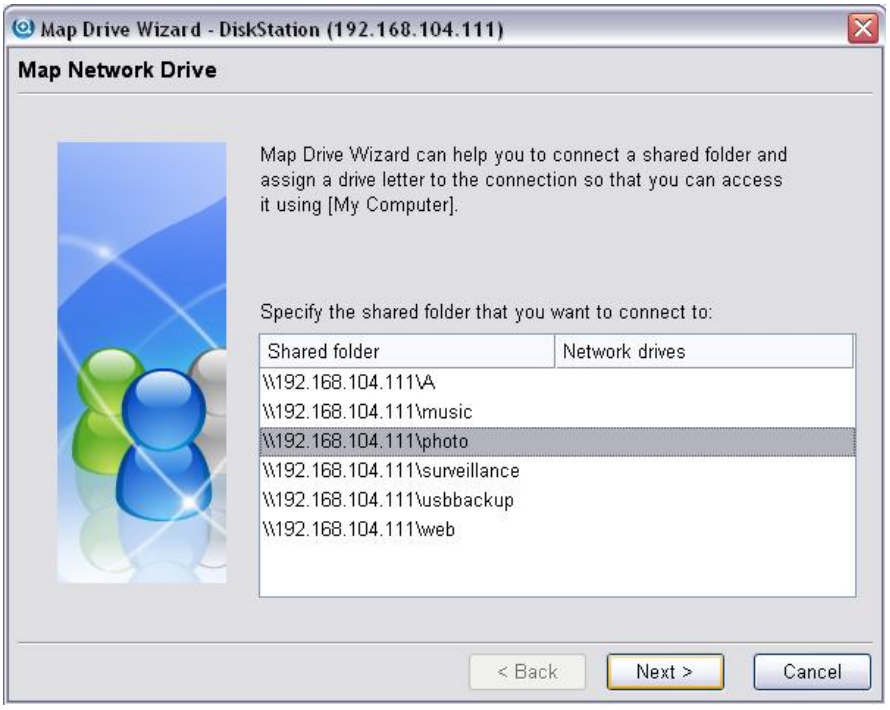
Windows users can access the Synology Server's shared folders by using Setup Utility to map Network Drive

Synology Assistant, which is included in the Installation CD, not only helps Administrator manage Synology Server, but also provides users with the following steps to map Network Drive:

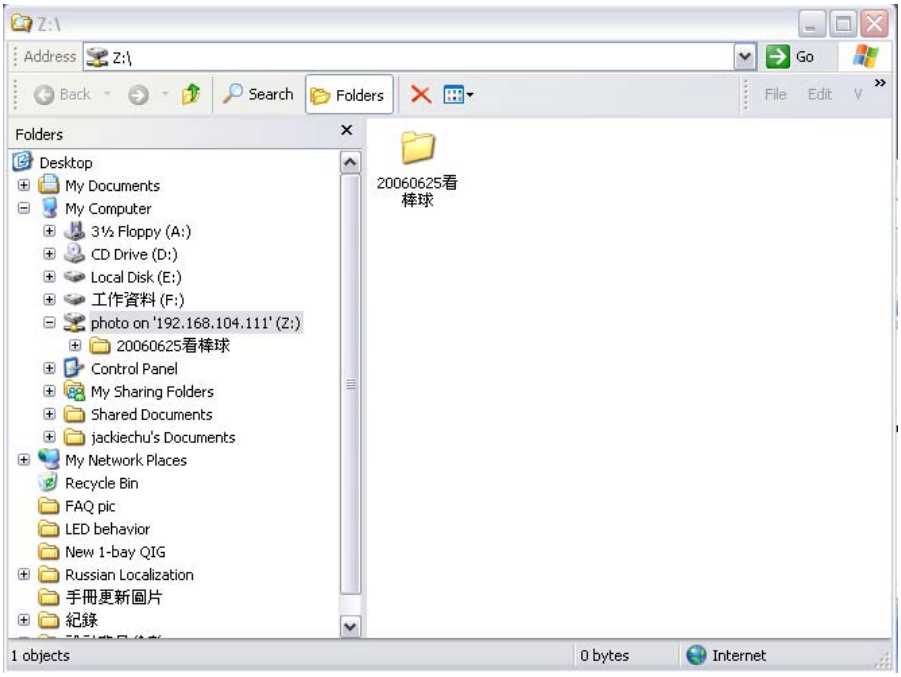
1. Run Synology Assistant.
2. Choose the server to map network drive.
3. Click on the "Map Drive" button on the left.



4. Follow the on-screen steps to finish the setup.

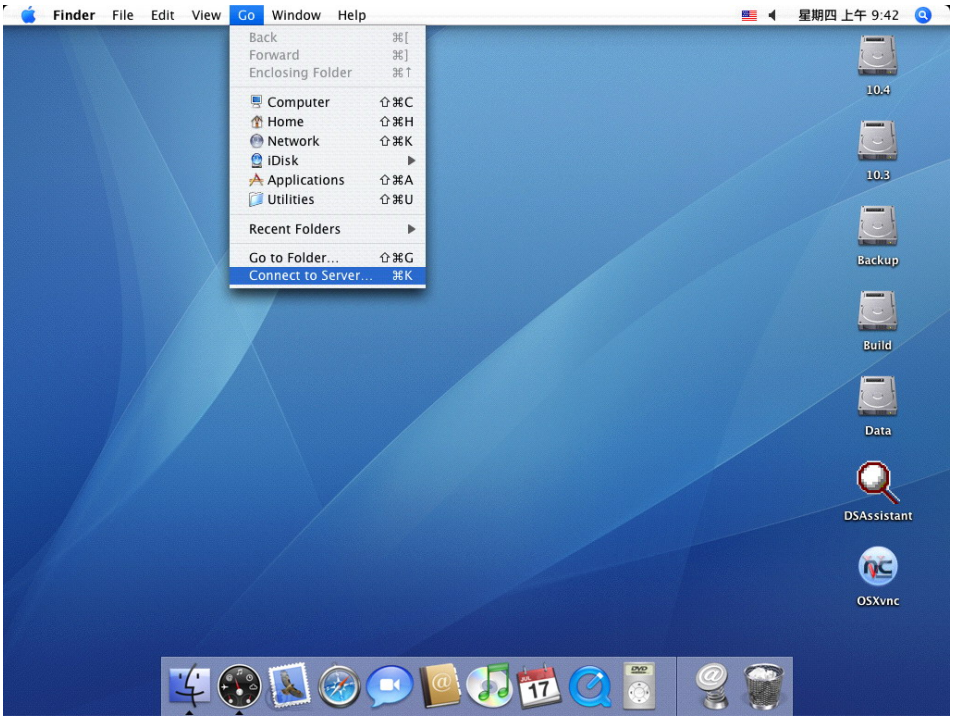

Map Drive Wizard - DiskStation (192.168.104.111)
Map Network Drive
Map Drive Wizard can help you to connect a shared folder and assign a drive letter to the connection so that you can access it using [My Computer].
Specify the shared folder that you want to connect to:
Shared folder
Network drives
\\192.168.104.111\A
\\192.168.104.111\music
\\192.168.104.111\photo
\\192.168.104.111\surveillance
\\192.168.104.111\usbbackup
\\192.168.104.111\web
< Back
Next >
Cancel

5. Upon completion, user can access the mapped shared folder in Windows Explorer.



Mac User

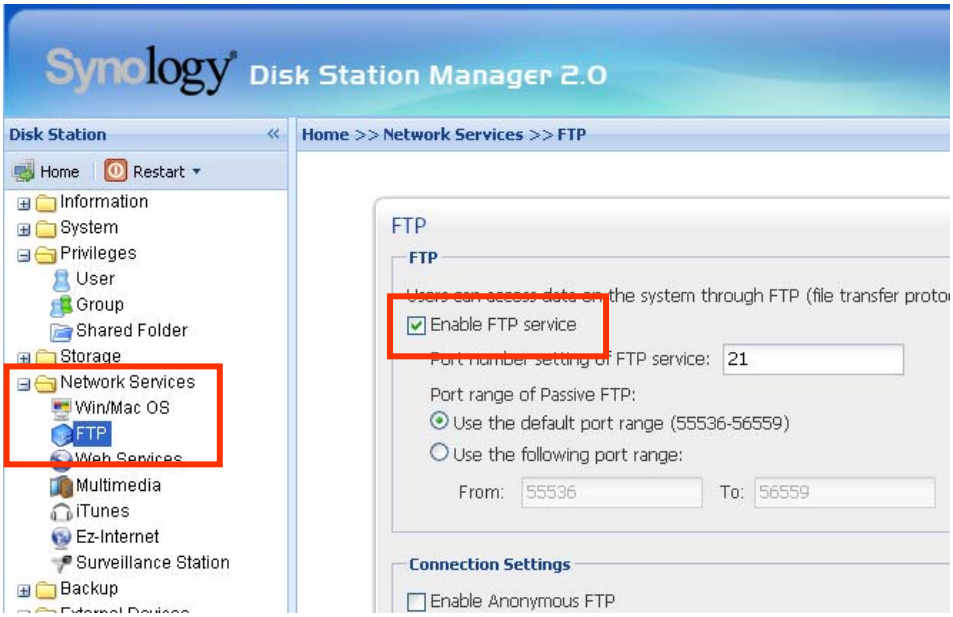
Mac user can use ”Go > Connect to Server” to choose a Synology Server and access the shared folder on the server.



From different network

Through FTP

Synology server provides FTP service. Administrator can enable FTP service on the “Network Service > FTP” page of the Web Management UI. Windows users and Mac users can thus access data in Synology Server by FTP Protocol. Synology server supports Secure FTP by default when administrator enables the FTP service. To prevent data from being access while transferring, users can also use “FTP over SSL” or “FTP over TLS” on the FTP client to make the data more secure. For the detailed information of using FTP and its limitation, please refer to Help on “Network Services > FTP” page.



Please note:

1. Administrator has the option to adjust FTP Bandwidth or enable Anonymous login.
2. FTP Service does not support Unicode. Before enabling FTP Service, please go to “System > Language” page and setup codepage according to user’s client PC.

Through File Station

Synology File Station is a web-based file management tool. In the user interface of the File Station, users can upload, download, copy, move, and delete files and folders. For detailed function descriptions, please refer to the online Help in the File Station user interface.

Server Backup and PC Backup Solutions

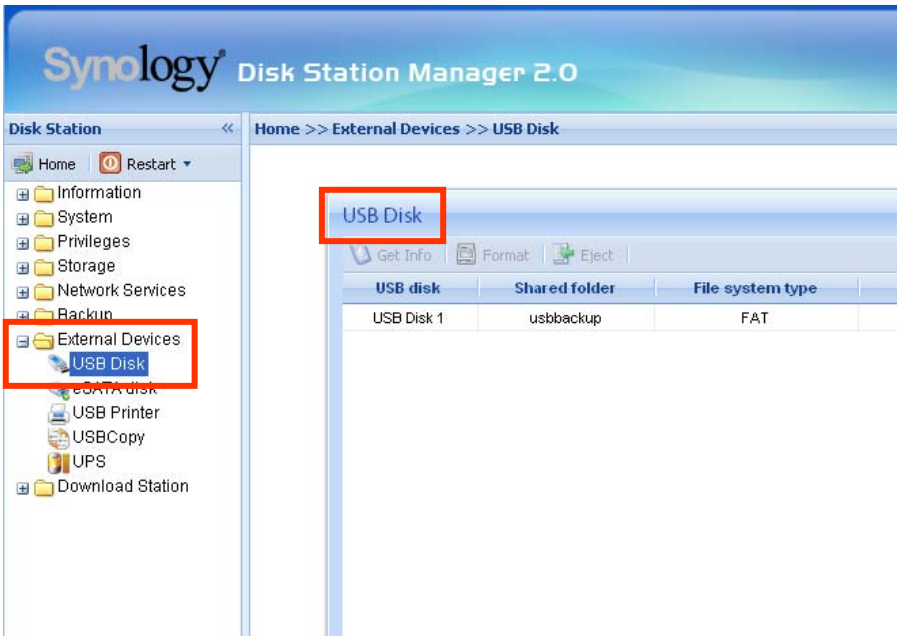
Synology Server provides complete backup solutions:

1. By using “Local Backup”, Administrator can back up Synology Server’s data to external USB or SATA HDD.
2. By using “Network Backup”, Administrator can back up Synology Server’s data to another Synology Server or an rsync compatible server.
3. By installing Synology Data Replicator II software on the client PC, Windows users can back up data from PC to Synology Server.
4. Administrator can also back up Synology Server’s User, Group, and Shared folders (see details below).

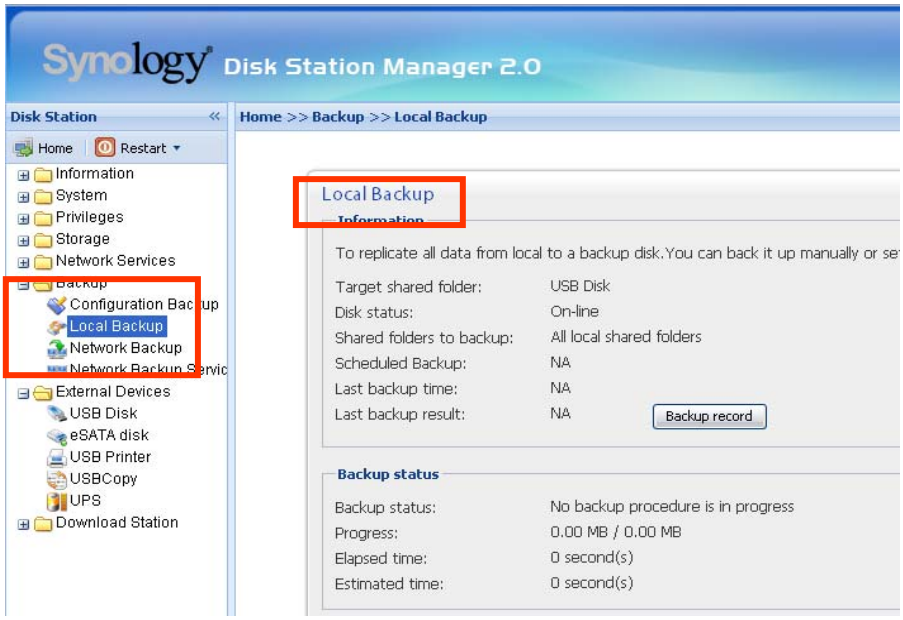
Local Backup

Please use the Backup Wizard or follow the below steps to perform Local Backup:

1. Connect an external USB HDD or SATA HDD to the corresponding port on Synology Server.
2. Go to the page “External Devices > USB Disk” or “External Devices > eSATA Disk” of the Web Management UI, and format the HDD as “backup purpose”.

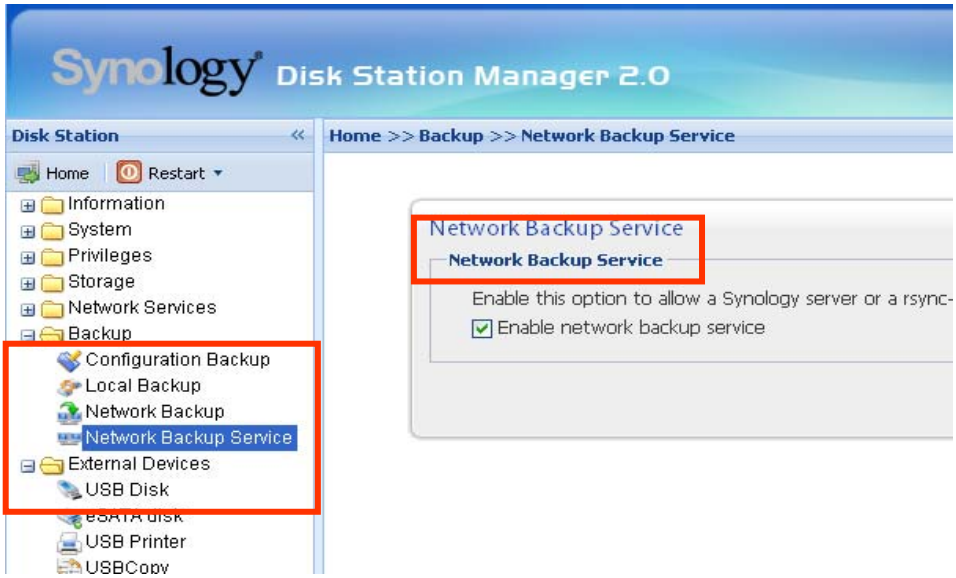


3. Go to the page “Backup > Local Backup” to set up your backup task.



Network Backup

Synology Server provides bidirectional Network backup. Network Backup allows Administrator to back up Synology Server’s data to another Synology Server or an rsync-compatible server through network. Users can also allow other Synology server or a rsync-compatible server to perform network backup to your Synology Server. To activate this function, please go to Network Backup Service and click Enable network backup service. Please ensure Network Backup is enabled on the target server before performing the task. Go to the Help on “Backup > Network Backup Service” page for detail information.



Backing up Personal Data

Windows users can install “Synology Data Replicator 3” backup software which can be found on the installation CD. They can back up client PC data to Synology Server to maintain a good copy of data whenever needed.

Using Synology Data Replicator 3, users can:

1. Monitor selected folders on client PC and perform real-time backup when any modification to the file is made.
2. Adjust backup versions and restore points.
3. Restore backup data on Synology Server to client PC at user’s preference.

Before starting

Before using Synology Data Replicator 3, please ensure:

1. Client PC and Synology Server uses the same encoding for backup to perform adequately.
2. Synology Data Replicator 3 is the next generation of Synology Data Replicator. It can only restore backup data on Synology Server generated by itself. If users have backed up data on Synology Server using Synology Data Replicator, we recommend restoring data on Synology Server to PC first before using Synology Data Replicator 3.

Minimum System Requirement

1. Free HDD Space: 5MB
2. Operating System: Windows 2000 and onward
3. Best Screen Resolution: 1024*768 and above
4. Microsoft Networking over TCP/IP enabled and has network connection with Synology Server.

Installing Synology Data Replicator 3

Insert Installation CD into Windows user CD/DVD-Rom drive. Click on “Synology Data Replicator 3”, and follow on-screen instructions.

Synology Installation CD
Synology Installation
Quick Installation Guide
Set up the Synology Server
Synology Assistant
Data Replicator II
Download Redirector
User's Guide
A quick setup wizard will guide you to set up server step by step

Using Synology Data Replicator 3

After installation, double click on the software icon to execute the program. Click on “Help” for detail description.

Backing up Synology Server Settings

There are two options for you to back up Synology Server's "User", "Group", "Shared Folder" settings for easy maintenance and restoration.

Synology Server to PC Client

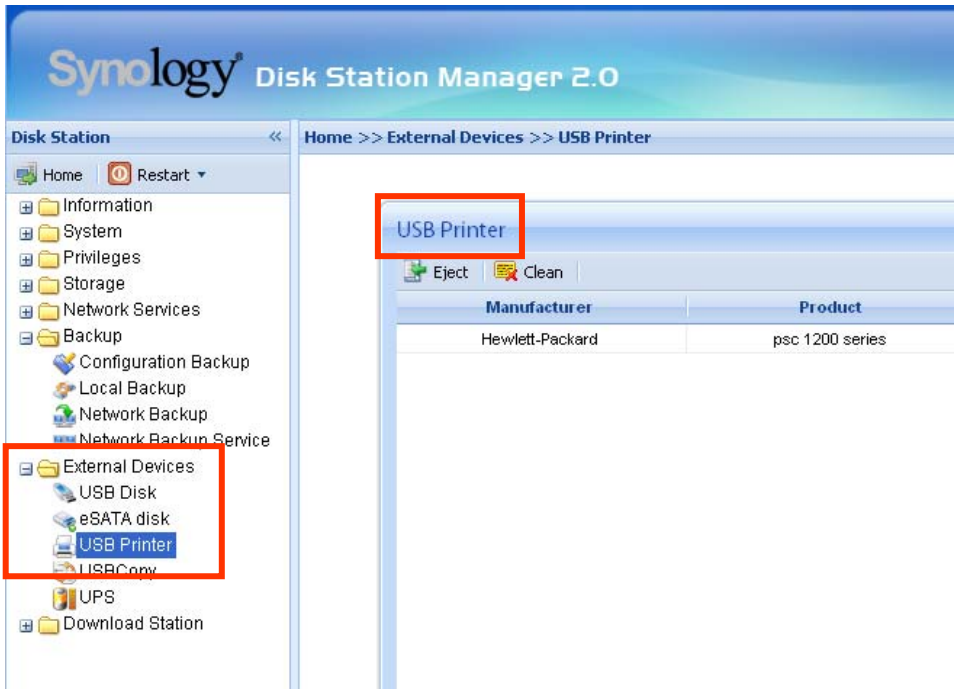
Go to the page "Backup > Configuration Backup" of the Web Management UI to back up settings from Synology Server to PC Client.

Synology Server to another Synology Server

The data backed up to another Synology Server or an rsync compatible server using "Network Backup" automatically includes the "User", "Group", "Shared Folder" settings. When you recover the data, you can choose if you want to recover these settings.

Sharing USB Printer

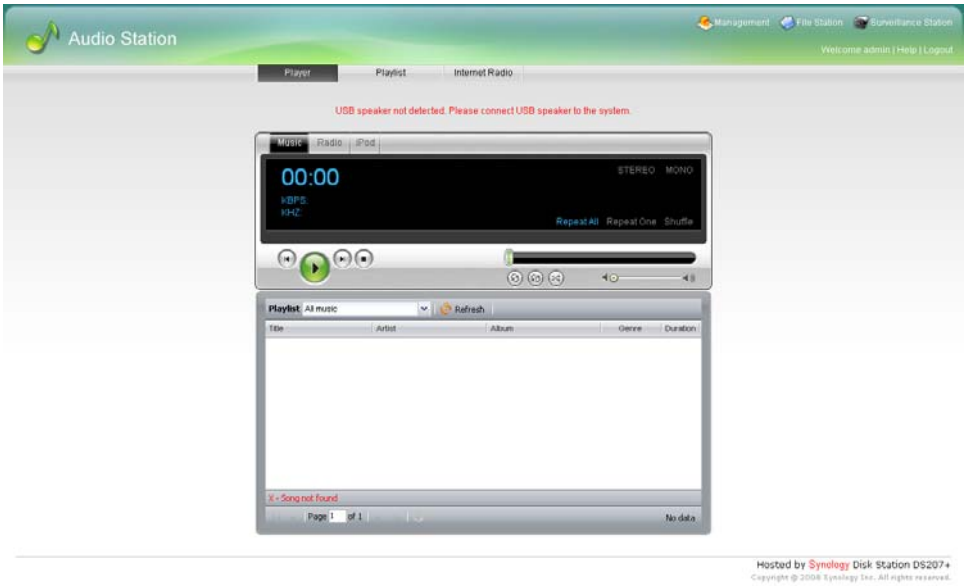
Synology Server helps users to share the USB Printer. Please refer to Help on the“External Devices > USB Printer” page of the Web Management UI for the detailed settings on different platforms.



Extra Features

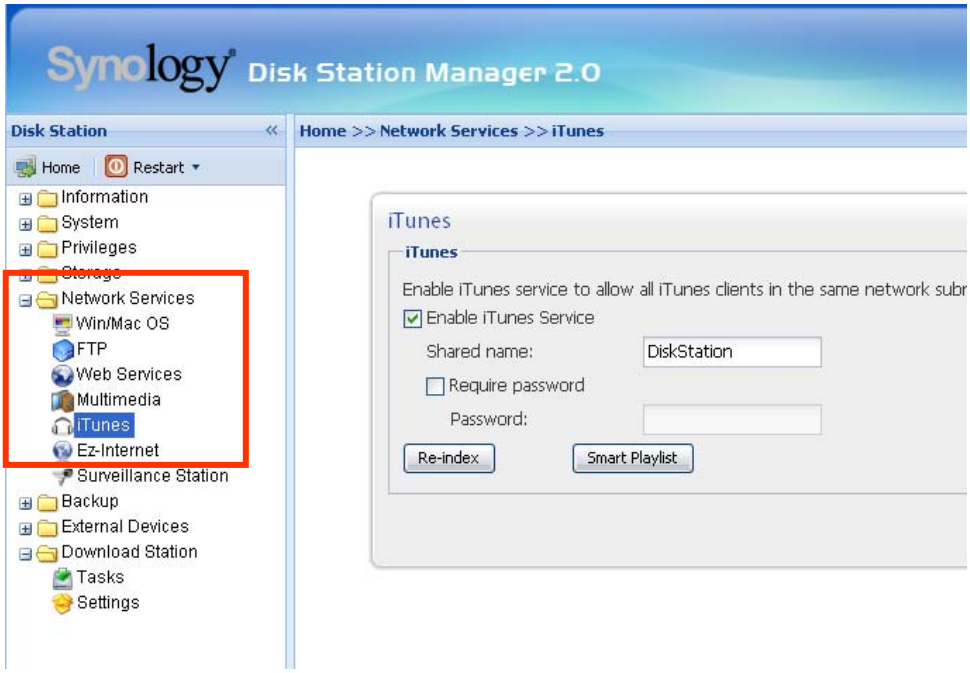
Audio Station

By connecting a set of verified USB speakers and the Synology Remote receptor to the USB ports on the Synology Server, users will be able to enjoy the music stored on the Synology Server with the music player in the Audio Station web interface, or by the direction-free remote control. Besides music on the Synology Server, users can also listen to Internet radio stations, or play music from the connected iPod. For detailed function descriptions, please refer to the online Help in the Audio Station web interface.



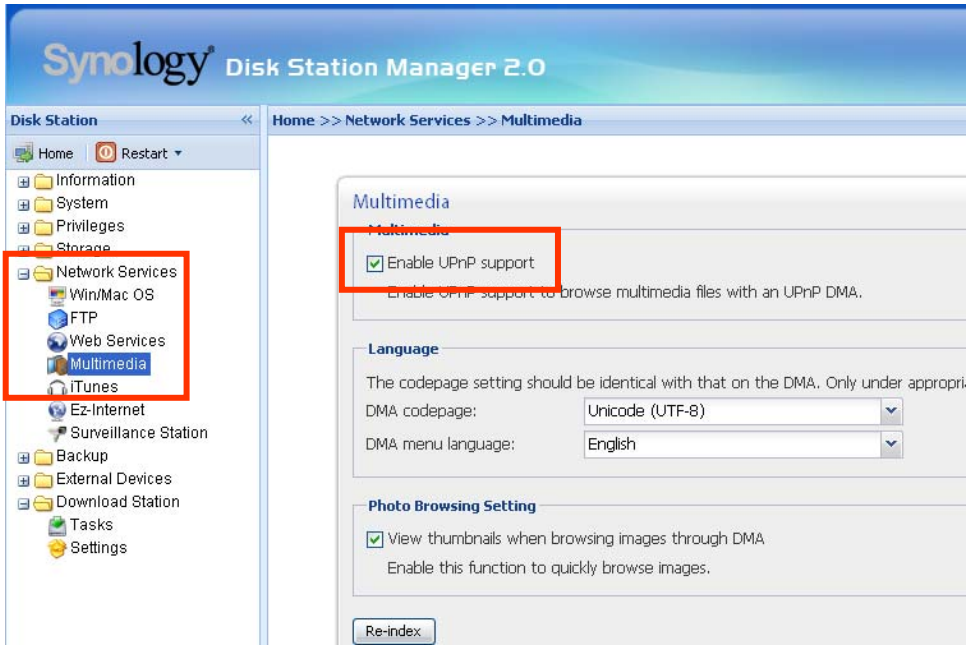
iTunes Service

When “iTunes Service” is enabled, users can play music files stored on Synology Server with any iTunes clients on the same subnet. For the detailed information and its limitation, please refer to Help on “Network Services > iTunes” page of the Web Management UI.



Multimedia Service

When “UPnP Service” is enabled, users who have UPnP DMA (Digital Media Adapter) can browse multimedia files on Synology server. Please go to “Network Services > Multimedia” page for further setup.



Download Station

Synology server can download files from Internet through BitTorrent, FTP, and HTTP. PC users and Mac users can either install Download Redirector or go to the “Download Station” section of the Web Management UI to add download tasks and manage the download queue.

Before start adding download tasks, you should enable Download Station on the server and install Download Redirector on PC or Mac.

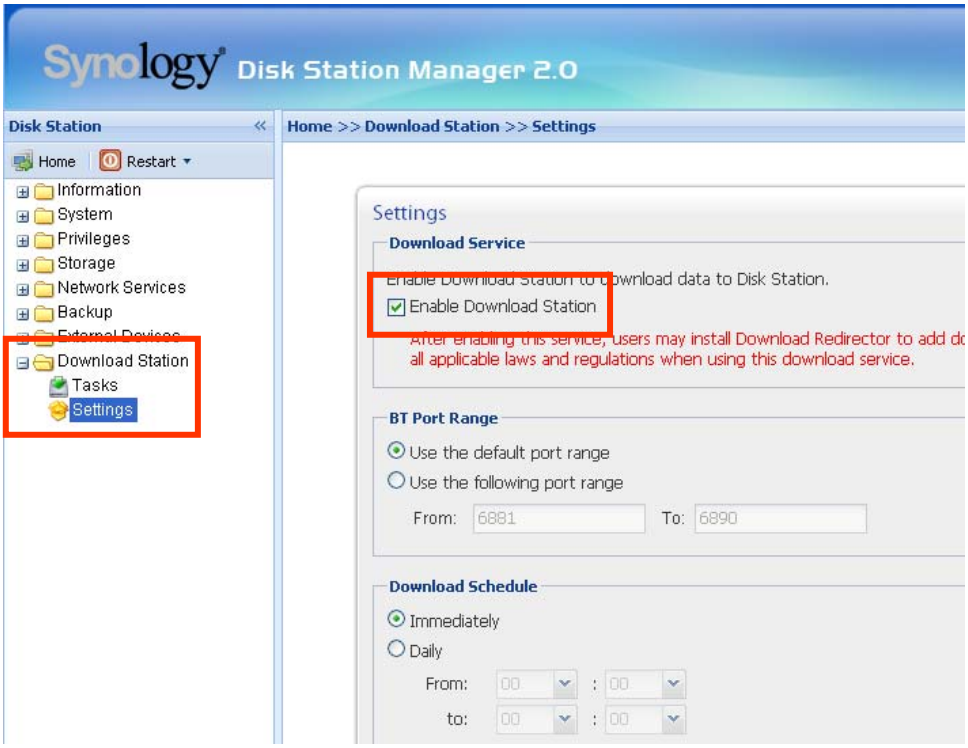
Enabling Download Station

Go to the “Download Station> Settings” page.

Installing Download Redirector

Insert Installation CD into the CD/DVD-Rom drive. Click on “Download Redirector”, and follow on-screen instructions to complete installation.

For the detailed description of Download Redirector, please refer to Help on Download Redirector program window, or hit Help on “Download Station> Settings” page of the Web Management UI.



Web Station

Personal or corporate website can be easily setup using “Web Station.” By integrating with PHP and MySQL, users can also setup online shop. PHP support is turned on by default, MySQL requires manually enabling.

Enabling Web Station and MySQL

Go to the “Network Services > Web Services” page.

Web Station’s detail description

Please click on “Read Tutorial” link next to “Enable Web Station”.

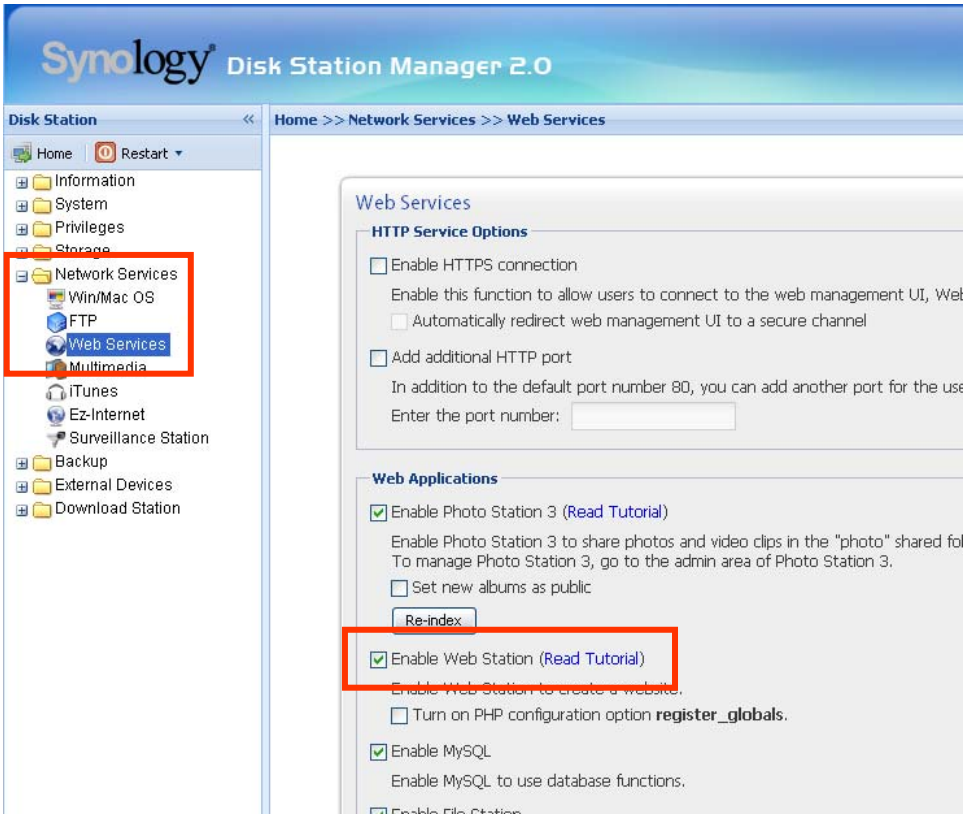

Synology Disk Station Manager 2.0
Disk Station
Home >> Network Services >> Web Services
Home
Restart
Information
System
Privileges
Storage
Network Services
Win/Mac OS
FTP
Web Services
Multimedia
iTunes
Ez-Internet
Surveillance Station
Backup
External Devices
Download Station
Web Services
HTTP Service Options
Enable HTTPS connection
Enable this function to allow users to connect to the web management UI, Wel
Automatically redirect web management UI to a secure channel
Add additional HTTP port
In addition to the default port number 80, you can add another port for the us
Enter the port number:
Web Applications
Enable Photo Station 3 (Read Tutorial)
Enable Photo Station 3 to share photos and video clips in the "photo" shared fol
To manage Photo Station 3, go to the admin area of Photo Station 3.
Set new albums as public
Re-index
Enable Web Station (Read Tutorial)
Turn on PHP configuration option register_globals.
Enable MySQL
Enable MySQL to use database functions.

Photo Station 3

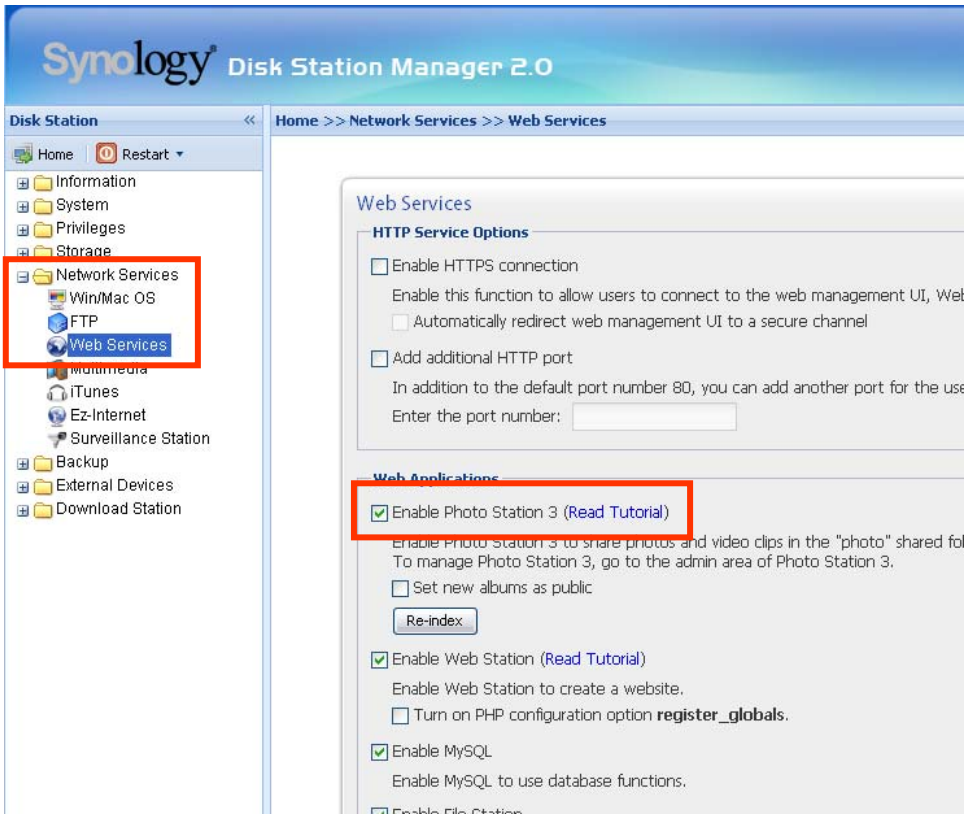
“Photo Station 3” is the new online album function integrating a blogging system. After uploading the folder which contains photos and videos to the "photo" shared folder, Photo Station 3 will start to create thumbnails automatically. Administrator can then sign in to Photo Station 3 to manage the album and create blogs.

Enabling Photo Station 3

Go to the “Network Services > Web Services” page.

Photo Station 3’s detail description

Please click on “Read Tutorial” link next to “Enable Photo Station 3”.


Synology Disk Station Manager 2.0
Disk Station
Home >> Network Services >> Web Services
Home
Restart
Information
System
Privileges
Storage
Network Services
Win/Mac OS
FTP
Web Services
iTunes
Ez-Internet
Surveillance Station
Backup
External Devices
Download Station
Web Services
HTTP Service Options
Enable HTTPS connection
Enable this function to allow users to connect to the web management UI, Wel
Automatically redirect web management UI to a secure channel
Add additional HTTP port
In addition to the default port number 80, you can add another port for the use
Enter the port number:
Enable Photo Station 3 (Read Tutorial)
To manage Photo Station 3, go to the admin area of Photo Station 3.
Set new albums as public
Re-index
Enable Web Station (Read Tutorial)
Enable Web Station to create a website.
Turn on PHP configuration option register_globals.
Enable MySQL
Enable MySQL to use database functions.

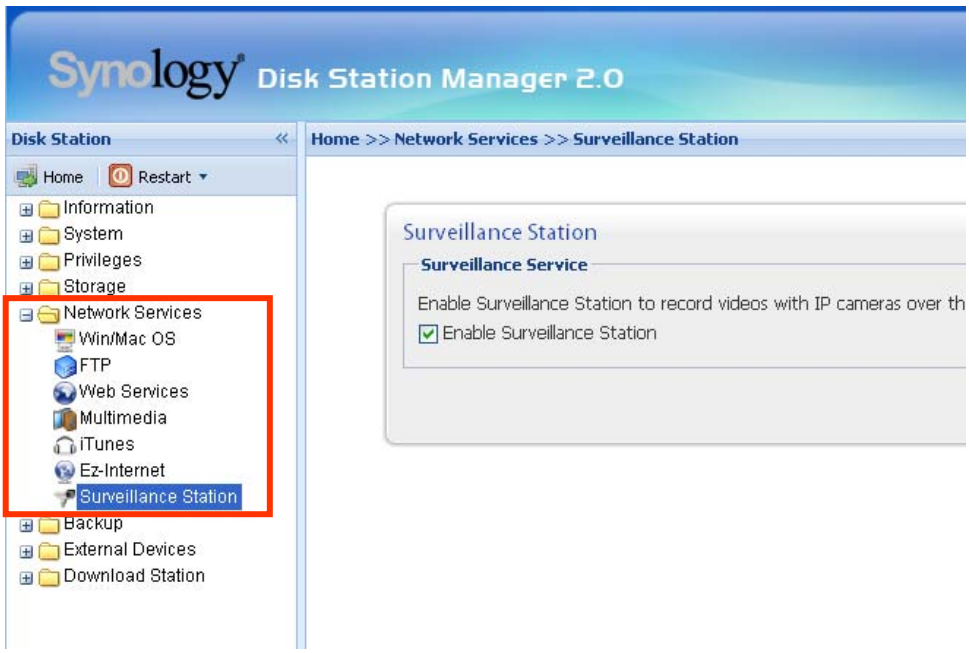
Surveillance Station

By using "Surveillance Station", you can monitor the live image of various IP cameras attached on the network, flexibly control the video recording options and record the videos.

The supported camera number varies from different models for the best performance. For the supported camera number, please refer to the product specification table.

Enabling Surveillance Station

Go to the "Network Services > Surveillance Station" page.



Surveillance Station's detailed description

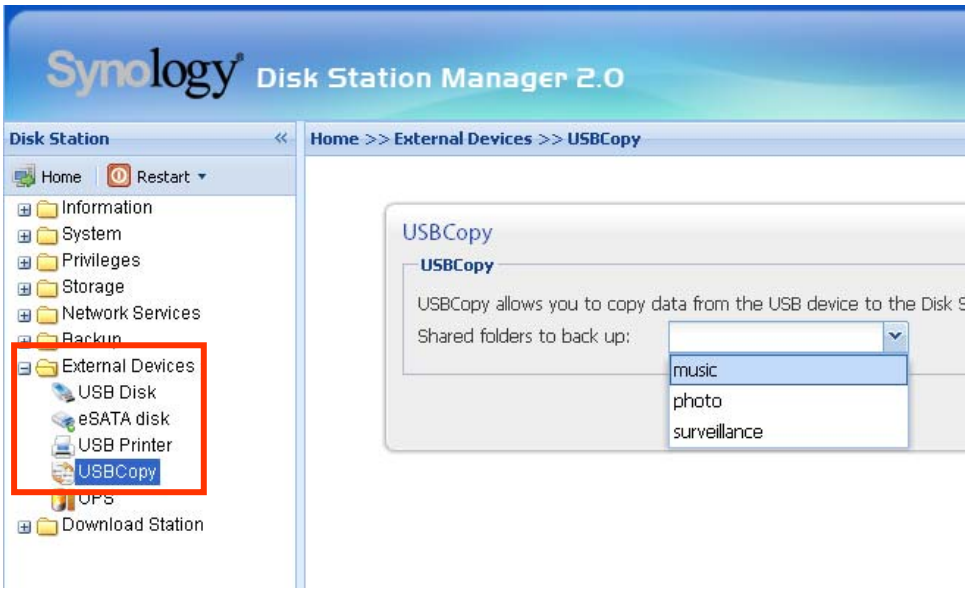
For detailed function descriptions, please click Help on the Surveillance Station Web Management UI.

USBCopy*

When a USB Device is connected to the USB port at the front panel, by pressing the “COPY” button all the data in the USB Device will be copied to Synology Server’s internal HDD.

Setting USBCopy Target Location

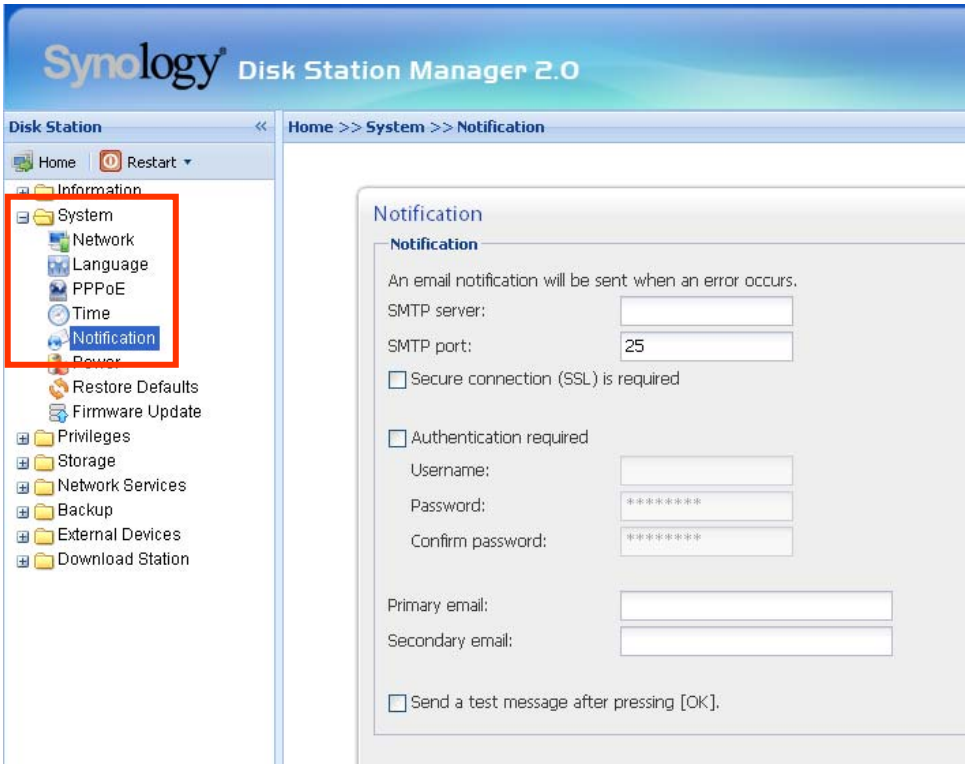
You can setup USBCopy target location on the “External Devices > USBCopy” page of the Web Management UI. When pressing the “Copy” button from now on, data will be copied to the target location.



* Supported on specific models only. Please refer to the product Specification table.

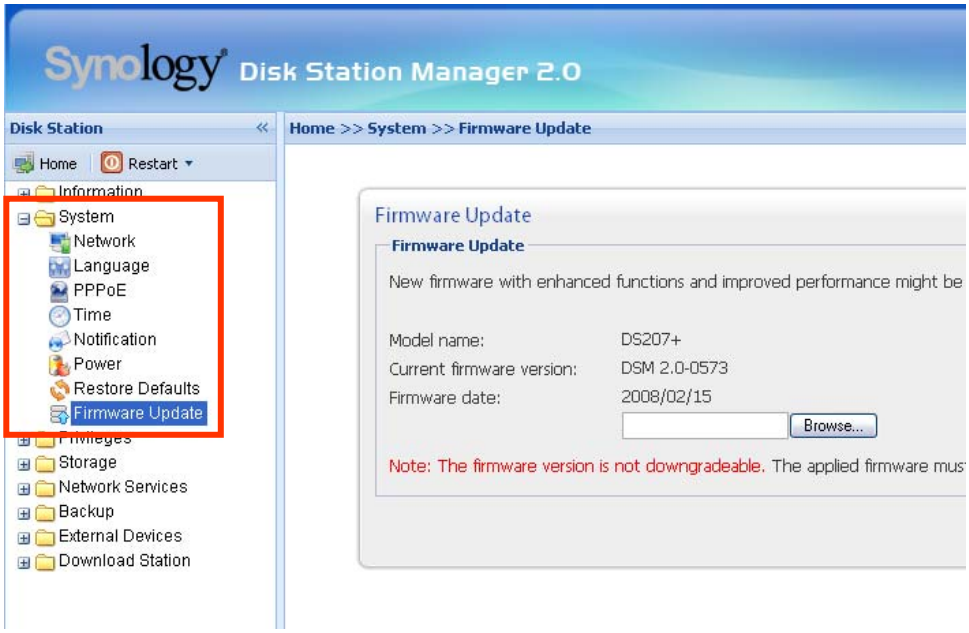
Mail Notification

Administrator can enter email address on the page “System > Notification”. Synology Server will send email to the address whenever an important event occurs to notify Administrator.



Firmware Update

To keep your Synology Server up to date, Administrator can go to “System > Firmware Update” page to upgrade firmware.



Note: Normally, upgrading the firmware of the Synology server will not affect data on the Synology server. However, to ensure data security, it is recommended that you back up your data before update.

Expanding Storage Capacity

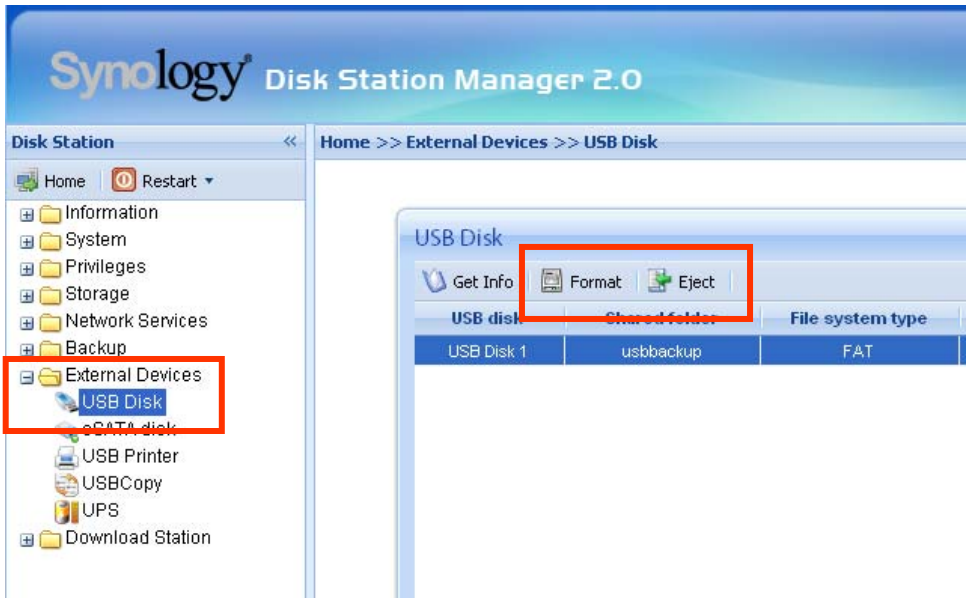
Administrator can expand the storage capacity by connecting external hard disks, replacing the internal hard disk with a larger one, or adding a hard disk to the volume.

External HDD

External USB HDD

When connecting an external USB HDD to Synology Server's USB port, "usbshare1" shared folder will be created automatically. Upon disconnecting external USB HDD, the shared folder will be removed. For more than 1 external USB HDD is connected, "usbshare2", "usbshare3" will be created accordingly.

To Eject or Format external USB HDD, go to the page "External Devices > USB Disk" of the Web Management UI.



External SATA HDD*

When connecting an external SATA HDD to Synology Server's eSATA port, "satashare" shared folder will be created automatically. Upon disconnecting External SATA HDD, shared folder will be removed.

To Eject or Format external SATA HDD, go to the page "External Devices > eSATA Disk" of the Web Management UI.

* Supported on specific models only. Please refer to the product Specification table.

Replacing Larger Internal HDD

When the internal HDD storage is run out, Administrator can follow the steps to replace a larger HDD and keep using the original data:

Basic and RAID 0* Volume

1. Replace the original internal HDD with a larger one.
2. Connect the original HDD to the USB/eSATA port.
3. Copy the data from the original HDD to the new HDD.
4. Remove the original HDD.

RAID 1 and RAID 5 Volume*

1. Replace the smallest hard disk of the volume with a larger one.
2. After system has detected the new hard disk, click “Expand” on the “Storage > Volume” page of the Web management UI.
3. Repeat steps above until you finish replacing all hard disks you want to change.

Adding a HDD to a RAID 5 Volume*

You can expand the storage capacity of the RAID 5 volume by adding a spare HDD to the RAID 5 volume., Please refer to the online Help on the "Storage > Volume" page of the Web Management UI for detailed instructions.

* Supported on specific models only. Please refer to the product Specification table.

Troubleshooting

For any questions about managing your Synology Server, please refer to the “Help” button at every page of the Web Management UI. For any questions other than that, please visit Synology Inc. website (www.synology.com) for further assistant.

Appendix

Recommended Peripherals

For recommended peripheral models, including hard drive, USB printer, DMA, and UPS, please visit www.synology.com.

Recommended NTP Server

The main purpose of Network Time Protocol (NTP) is for synchronizing clocks of computer system over data network. We have provided a few recommended NTP servers. For more information about NTP Server, please visit http://www.eecis.udel.edu/~mills/ntp/servers.html

Below are few recommended NTP server:

1. time.apple.com
2. time.asia.apple.com
3. time.euro.apple.com
4. time.nist.gov
5. time.windows.com

For more information, please refer to:
http://ntp.isc.org/bin/view/Servers/WebHome